

54th Annual Meeting of the
Association for Tropical Biology and Conservation



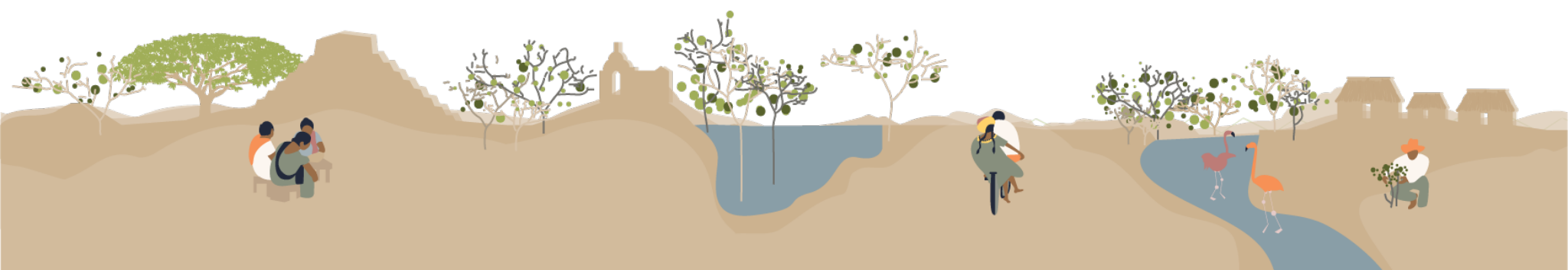
Merida • Yucatan • Mexico

July 9-14, 2017

Ecological and social dimensions of tropical biodiversity conservation

PROGRAM

www.atbc2017.org





Download the program and
proceedings of the ATBC 2017
www.atbc2017.org/program



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CONGRESOS Y
CONVENCIONES



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Welcome!

We welcome all of you to the 2017 ATBC meeting held in Merida, Yucatan, Mexico. We hope you have fruitful interactions with colleagues, old friends, and new collaborators, mentees and mentors amidst the beautiful surroundings that blend culture, history, and nature.

Founded in 1963, the Association for Tropical Biology and Conservation (ATBC) is a membership corporation, international in scope, membership, and objectives, functioning as an international body to foster scientific understanding and conservation of tropical ecosystems by supporting research, collaboration, capacity building, and communication among tropical biologists and conservationists. The ATBC, currently with members from over 65 countries, composes a broad community of tropical biology professionals and provides outlets for research dissemination, educational and funding opportunities, particularly for early career scientists working across the tropics. As a diverse community of science professionals, the ATBC provides a credible, collective, and authoritative vision of tropical biology and conservation issues that underpin public policy and management action. Our journal, *Biotropica*, is the leading international journal on tropical biology, and publishes six issues per year on-line.

Starting with the Asia-Pacific and Student and Early Career Scientist Chapters, new regional and thematic chapters are being formed to provide more outlets for collaboration, communication, and regional networking. The Africa chapter is becoming established and the Latin America chapter will soon be born. The ATBC also offers a Mentoring program, Skills Workshops and Short Courses. The Conservation Chapter works actively to focus on important issues where ATBC resolutions and declarations can have an impact on decision making and mobilizing conservation actions around the tropics. We offer many ways to become involved.

ATBC provides tiered membership options for students and regular members regardless of economic status, and provides a limited number of travel grants to annual meetings. We aim to be supportive, inclusive, participatory, transparent, and multidisciplinary in all of our activities and events.

Please join us as a member to receive the maximum benefits of our global society.

Please visit our website for more information (<http://tropicalbiology.org>) as well as our Facebook pages ATBC and Tropical Biology and Conservation Forum) and Twitter feed (@tropicbiocon).

Dr Robin Chazdon
ATBC- Executive president

Dr. Marielos Peña Claros
ATBC- President 2017

WELCOME TO THE ATBC 2017!

It is with great pleasure and joy that we extend to all of you the warmest welcome to the 54th meeting of the Association of Tropical Biology and Conservation (ATBC) in the splendid city of Merida, Yucatan, Mexico. Four of the most important academic entities in Mexico (the Instituto de Investigaciones en Ecosistemas y Sustentabilidad de la Universidad Nacional Autónoma de México, the Centro de Investigación Científica de Yucatán, La Facultad de Biología of the Universidad Autónoma de Yucatán and the Instituto de Investigaciones Naturales of the Universidad Michoacana de San Nicolás de Hidalgo), which teach and carry out research in tropical biology and conservation, have joined efforts to host the 2017 ATBC annual meeting in Merida, a world-class location.

Merida is a great venue for this meeting for several reasons. First, the city is located inside the Chicxulub crater that was formed by the impact of the asteroid that led to one of the six mass extinctions of species recorded in the history of Earth. This reminds us of the current massive species extinction driven by another global phenomenon: the increasing consumption and unsustainable use of natural resources by humans. The negative impacts of human activity on the biosphere, hydrosphere, and lithosphere are of such nature and magnitude that there is a growing consensus that a new geological epoch in the history of Earth has emerged, appropriately named the Anthropocene. Second, Merida is part of an ancient and living culture built upon the management of tropical biodiversity and ecosystems. Both ancient and contemporary Mayans adopted socio-ecological ways of living that made possible great past civilizations, and today these practices inspire ways to solve the challenges imposed by the coexistence between nature and societies. These examples of coexistence efforts are found across the tropical world, especially in traditional human communities, and they call for alternatives to the unsustainable modes of development that prevail in much of today's societies, especially in urban areas. These aspects define the theme of the Merida meeting: Ecological and social dimensions of the conservation of tropical biodiversity. In addition, Merida is a city rich in history (with pre-Hispanic, colonial and contemporary episodes), culture (including unique regional food dishes) and folklore, surrounded by countless natural, archaeological and ethnical attractions, which make a magnificent context for a special ATBC meeting.

Based on the mission, objectives and principles of ATBC, the meeting in Merida will pursue research topics on the origin, evolution, and maintenance of the extraordinary tropical life diversity, on the anthropogenic impacts on biodiversity and ecosystems, on the human factors (societal, cultural, political, and economical) driving such impacts, and on conservation, restoration and planning issues. The Merida meeting has attracted an important number of delegates. More than 750 contributions, divided into 31 symposia, 39 sessions of free oral presentations, and 4 poster sessions conform the skeleton of the meeting program. Delegates are coming from more than 40 countries and more than 380 academic institutions. We are particularly pleased that 50% of the delegates are bachelor and graduate students, which indicates the great "regenerative potential" that the ATBC community has. Of course, the origin of delegates participating in ATBC meetings varies from year to year, depending on the region of the planet where the meeting is held. Therefore, it is not surprising that in Merida more than 75% of the delegates come from the American continent, particularly from the United States (25%), Mexico (20%), and Brazil (19%). However, delegates from the Asian (India, China, Indonesia), African (Benin, Nigeria), Australian (Australia, New Zealand) and European (Germany, Great Britain, Netherlands, Spain, Italy, Czech Republic, Switzerland, among others) continents are attending the Merida meeting.

A particular effort has been made to enrich the meeting with special events that, in addition to keynote lectures, will provide diverse perspectives on critical issues in tropical biology and conservation through

debates and panel discussions. Four lectures will address topics such as: i) the collaboration required to better face scientific challenges and to search for solutions to environmental problems, ii) the need for trans-disciplinary work to cope with new diseases emerging from human impacts on biodiversity and natural ecosystems, iii) the history of extinctions of mammal fauna since the arrival humans to America (analyzed through extraordinary and unique paleontological records), and iv) the importance of tropical mangroves as complex ecosystems supplying ecosystem services of local, regional and planetary relevance.

Debates and panel discussions will be held for the first time on key topics with the participation of scientists and experts from different regions of the planet. One debate will address the advantages and disadvantages of conserving biodiversity through land-sharing versus land-sparing strategies. A second debate will discuss to what extent inter-governmental agreements on the international trade of animal and plant specimens (e.g. CITES) have fostered or hampered the conservation of endangered species. Regarding the panel discussions, a first one will address the extent to which the decline of the Mayan civilization was associated with an unsustainable management of their environment, and the lessons emerging from this socio-ecological history for present societies. A second panel will identify societal and ecological questions and issues emerging from the intersection of tropical ecology, conservation and society in the Anthropocene. Finally, a third panel will address the role of second-growth forests for conservation and restoration in the tropics analyzed from ecological, social and economic points of view. We hope that the audience will participate interactively in these events. To assess coincidences and divergences in the opinions of tropical biologists and conservationists, during the debates and panels the audience will respond to pre-defined questions using an electronic voting system.

Besides these special events, there will be a series of expositions, workshops, courses, meetings of working groups, and a variety of field trips, among other activities. In particular, we would like to highlight the scientific coffee sessions where delegates will be able to freely exchange ideas and points of view with leaders in tropical biology and conservation on hot scientific topics. Furthermore, ATBC will have the presence of the general public in Merida. During the days of the meeting a series of scientific coffee sessions will be open to the public in the splendid house of the National University of Mexico in Merida. Finally, we have prepared cultural activities that will bring delegates closer to the history, folklore and present life of the Yucatan Peninsula. Thus, on the day of inauguration, we will visit the Great Mayan World Museum, where you can visit rooms related to the impact of the asteroid that produced the Chichchulub crater and the extinction of dinosaurs and the history of the Mayan civilization. After this tour, we will offer a welcome cocktail with traditional Yucatecan food snacks and typical music of the region. For the banquet and closing party, delegates will enjoy a rich dinner of Yucatecan food, and will be able to experience and dance to the music typical of Mexico and Latin America.

All these activities, will give you the opportunity to enjoy the academically rich and friendly atmosphere typical of ATBC annual meetings.

Dr Miguel Martínez Ramos
ATBC 2017 Program Chair

Dr Juan Manuel Dupuy Rada
ATBC 2017 Program Co-chair

ORGANIZING COMMITTEE



Miguel Martínez-Ramos

Program Chair

Miguel Martinez-Ramos is an ecologist dedicated to the study of factors, processes and mechanisms that determine the dynamics of tropical forests in natural and modified environments in the dry and humid regions of Mexico and in some regions of Central and South America. His research focuses on the understanding of ecological principles involved in the coexistence of plant species at local and landscape scales, establishing the scientific basis for the sustainable use of tropical forest products and providing knowledge about regeneration and restoration of forests in landscapes shaped by activities human. His ultimate goal, is the establishment of frameworks for sustainable management of ecosystems, improving the conservation of biodiversity and the welfare of people who manage tropical forests.



Juan Manuel Dupuy Rada

Program Co-chair

Juan Manuel Dupuy is an academic dedicated to the research of the patterns, processes and factors that determine the structure, diversity and composition of tropical forests in human-perturbed habitats. Specially he is interested in the regeneration, succession and forest-dynamics at the community and landscape levels. Recently, his research projects have been focused to the carbon measurement and monitoring in the tropical forest to implement climate change mitigation strategies.



Victor Parra-Tabla

Victor Parra-Tabla is an ecologist at the Universidad Autónoma de Yucatán. His research has been focused on the study of multiple interactions that occur between parasitoids-herbivores-plants and pollinators. His research interest has been expanding to the study of plant local adaptation and phenotypic plasticity of interespecific interactions, using molecular tools and ambitious field experiments in large geographic scales. He is also interested in the implications of my studies in the conservation biology and management of some species.



Ileri Suazo-Ortuño

Ileri Suazo-Ortuño is an ecologist and herpetologist at the Instituto de Investigaciones sobre los Recursos Naturales of the Universidad Michoacana of San Nicolás of Hidalgo in Michoacán, México. Her research is focused on the ecology and conservation of wildlife, mainly in the dry tropical forest of Western Mexico. For the last 15 years she has been studying the effects of anthropogenic activities on ecological and functional aspects of amphibians and reptiles in order to recommend sustainable agricultural management practices.

ASSOCIATION FOR TROPICAL BIOLOGY AND CONSERVATION

The Association for Tropical Biology and Conservation (ATBC) is an international professional society formed in 1962 to promote awareness, research, education, and communication in all aspects of tropical biology and conservation. ATBC publishes a scholarly journal, *Biotropica*, hosts a website, and organizes an annual meeting each year. The activities of ATBC and its members promote the understanding, education, and conservation of tropical biology diversity for posterity, for its intrinsic worth and for aesthetic and tangible values to humanity.



Robin Chazdon, *Executive Director*

Department of Ecology & Evolutionary Biology Unit 3043

University of Connecticut

Email: rchazdon@gmail.com

<http://hydrodictyon.eeb.uconn.edu/people/chazdon/>

www.tropicalbio.org



Marielos Peña Claros, *President ATBC 2017*

Associate Professor

Wageningen University, the Netherlands

Email: marielos.penaclaros@wur.nl

<https://www.wur.nl/es/Persons/Marielos-PenaClaros.htm>

SCIENTIFIC COMMITTEE

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PCO Piérde Correa, Intermeeting

ORGANIZERS



INSTITUTO DE INVESTIGACIONES EN ECOSISTEMAS Y SUSTENTABILIDAD-

UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

The Institute for Ecosystem and Sustainability Research (IIES-UNAM) mission is to conduct scientific research, human resources training and links with society, aimed at understanding environmental problems related to the management of socio-ecological systems, from disciplinary, multidisciplinary, interdisciplinary and transdisciplinary approaches. They contribute to building sustainable societies capable of providing fair and just, material and cultural satisfactions without affecting the capacity for renewal of ecosystems and respecting the natural processes that sustain life on the planet.

<http://www.iies.unam.mx/>



UNIDAD DE RECURSOS NATURALES-

CENTRO DE INVESTIGACIÓN CIENTÍFICA DE YUCATÁN

The Natural Resources Unit (URN) of the Center for Science Research of Yucatán (CICY) conducts research on conservation and sustainable use of natural resources in the Yucatan Peninsula, Central America, and other American regions. Also, URN carries out trans-disciplinary research and outreach activities with communities, producers, private agencies, government agencies and other academic institutions. URN is actively involved in training of graduate students in areas of Conservation Biology, Reproductive Biology, Biosecurity, Bio-productivity, Plant Ecology, Ecology of Communities and Ecosystems, Evolution, Systematics, Phylogeny, Physiology, Interactions, Landscape Ecology, and Ethnobotany, among other disciplines.

<http://www.cicy.mx/unidad-de-recursos-naturales>



DEPARTAMENTO DE ECOLOGÍA TROPICAL-

UNIVERSIDAD AUTÓNOMA DE YUCATÁN

The Department of Tropical Ecology (DET) of the Autonomous University of Yucatán (UADY) was created in 2000 as part of the Bachelor in Biology offered by UADY. In 2006, this BSc program received the award as "consolidated" by the Ministry of Education of Mexico, thanks to the important training labor of students and the scientific research done by the academics of the DET. The mission of DET is the generation of original knowledge in basic and applied areas of tropical ecology, as well as the training of students at high academic standards.

<http://www.uady.mx/>



INSTITUTO DE INVESTIGACIONES SOBRE RECURSOS NATURALES- UNIVERSIDAD MICHOACANA DE SAN NICOLÁS DE HIDALGO

The Research Institute of Natural Resources (INIRENA-UMSNH) is a unit of the Universidad Michoacana de San Nicolás de Hidalgo dedicated to scientific research, training human resources, and the transfer and dissemination of knowledge and technology generated for the benefit of society. The scientific community of INIRENA contributes to the understanding, management and conservation of natural resources of Mexico and in particular of the state of Michoacan.

<http://www.inirena.umich.mx/>



OUR PROFESSIONAL CONGRESS ORGANIZER (PCO) INTERMEETING

This agency is expert in planning, promotion, and organization of congresses, exhibitions and conventions. Nineteen years of experience support them as one of the best PCO in Mexico. The success of this agency is due to their effective working method, experience, a reliable network of specialized suppliers and the best team of work, offering an integral service.

SPONSORING

We are grateful for all institutions that offered financial support, donations or contributed to the organization of the meeting



Coordinación de la Investigación Científica, UNAM



Secretaría de Desarrollo Institucional, UNAM



Escuela Nacional de Estudios Superiores, Unidad Morelia UNAM



Posgrado en Ciencias Biológicas, UNAM



Gobierno del Estado de Yucatán



Secretaría de Fomento Turístico Gobierno del Estado de Yucatán



Oficina de Congresos y Convenciones Gobierno del Estado de Yucatán



Secretaría de Desarrollo Urbano y Medio Ambiente Gobierno del Estado de Yucatán



People and Reforestation in the Tropics, a network for education, research and synthesis



Comisión Nacional para el Conocimiento y Uso de la Biodiversidad



The Rufford Foundation



International Union of Biological Sciences

EXHIBITORS

Acknowledgements to our sponsors



Association for Tropical Biology and Conservation



Center for International Forestry Research



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The Field Museum



Bruja de Monte



Wildlife Acoustics

GENERAL INFORMATION

ATBC MEMBERSHIP

As a member you will:

- benefit preferential prices to register at the ATBC annual meetings
- be allowed 10 free published pages in BIOTROPICA annually
- get access to member-only conference registration rates
- be eligible for presentation awards during annual meetings
- be eligible for travel grants to assist to annual meetings
- have a webpage for your field site promoted at tropicabio.org
- have your BIOTROPICA paper highlighted at our FaceBook page


For more information please visit Wiley or email cs-membership@wiley.com



SOCIAL NETWORKS

ATBC

 <https://twitter.com/tropicbiocon>

 <https://www.facebook.com/TropicalBiologyConservation>

ATBC Europe Group

 <https://www.facebook.com/groups/806472452717639/>

ATBC. SECSCI (Student and Early Career Scientist Chapter)

 <https://www.facebook.com/groups/1429717710644455/>

ATBC Africa Chapter

 <https://www.facebook.com/groups/1606854326244847/>

ATBC 2017

 <https://twitter.com/atbc2017>

 <https://www.facebook.com/atbc2017/>

SOCIAL PROGRAM



WELCOME COCKTAIL

Sunday July 9th

18:30

Gran Museo del Mundo Maya

ATBC BANQUET

Thursday July 13th

20:30

Quinta Montes Molina

INFORMATION FOR PARTICIPANTS

BADGES

Your name badge is entry to all sessions, the exhibition, events & all catering services
Please wear your name badge at all times.



CATERING

Full registration fees included:

- Welcome Cocktail
- Coffee breaks
- 4 day lunch



Breaks will be served each day in the morning (at 10:30 hrs) and in the afternoon (at 16:00 hrs) in the Holiday Inn Hotel and in the corridors of Fiesta Americana Hotel.

EMERGENCY PROCEDURES AND FIRST AID

In the case of an emergency, please inform at 01 999 942 1111 (Hotel FA) or 911 (Emergency number in Mexico). Traveling and time zone differences can affect the body so feel free to stop in for medications, diagnosis, rest, minor injuries, or even to nurse for new mothers.



WIFI

Free wireless internet is available at no cost.



INTENTION TO PHOTOGRAPH

Delegates and others are advised that photographs may be taken during the conference and reproduced for promotional purposes.



SERVICES DEDICATED TO ATTENDEES

WELCOME PACK

We are delighted to welcoming you in Mérida during the 54th ATBC 2017. After your check-in at your arrival, go to our Welcome Desk (located in the Fiesta Americana Hotel, see map) to get your Welcome Pack.

Pack including: Delegate's bag, congress program, notebook and touristic information.

CHILD CARE

The ATBC 2017 organizers are please to make available to our attendees Child Care in the venue. You have to drop your child at the child care room (Salón Izamal, Fiesta Americana Hotel).



INFORMATION FOR AUTHORS



PREVIEW (Fiesta Americana Hotel)

All speakers are requested to check-in their presentation to the ATBC technical team at least a half day prior to their presentation. All presentations will be networked from the upload desk to the presentation rooms. The presentation upload desk will be open each day from 9:00 to 19:00.

ORAL PRESENTATION

Participants are advised to prepare PowerPoint presentation **using widescreen format (16:9)** with a time slot of 15 minutes, which includes approximately 12 minutes for the presentation and 3 minutes for question and discussion.

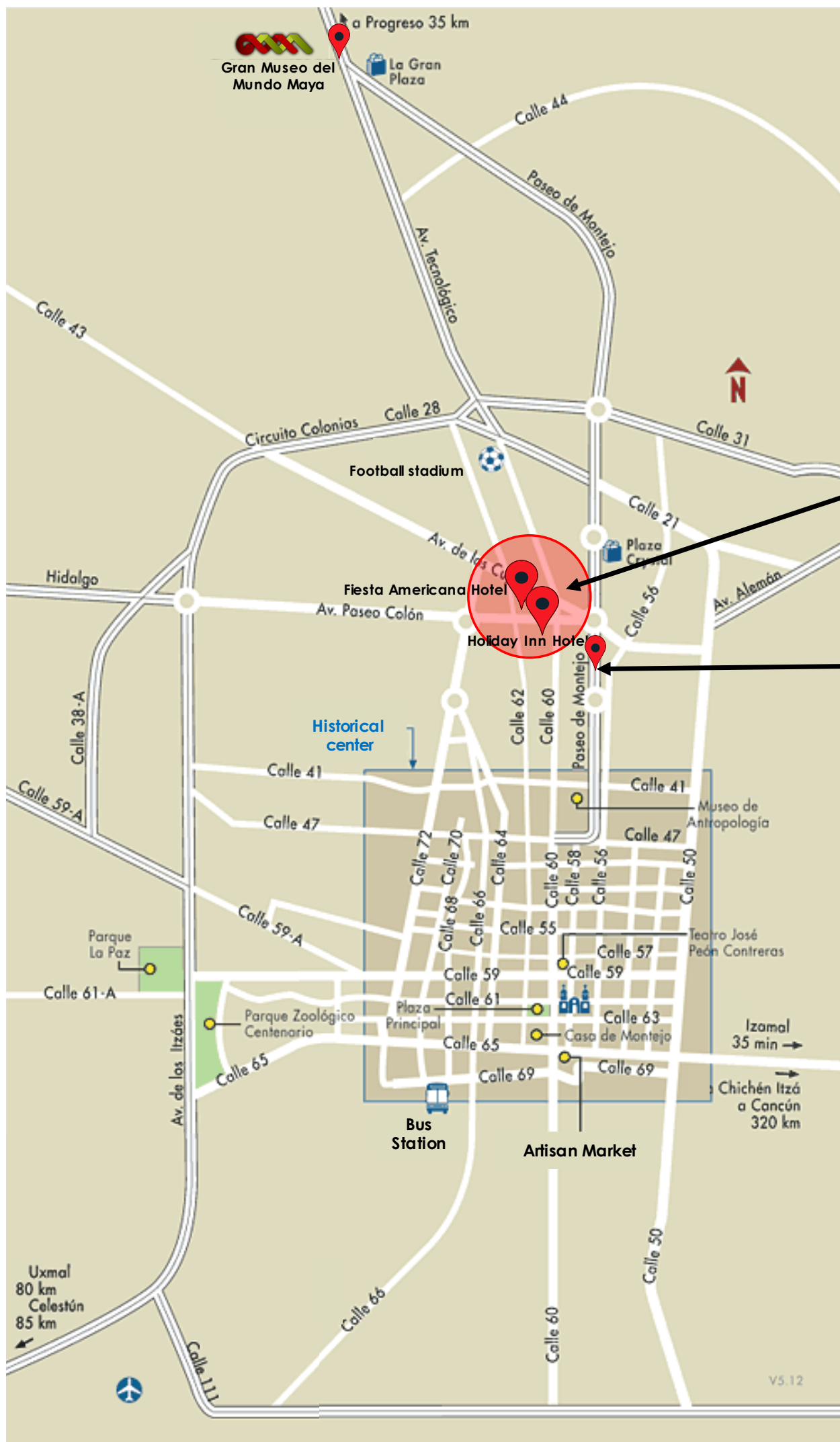
POSTER PRESENTATION

The size of Poster Board is 100 X 120 cm (Width x Height) size maximum.

Poster should then be 96 X 117 cm (Width x Height) max and it should be labeled and laid out in a clear and logical format to effectively communicate the results of your work. Posters will typically be read from 1m away, hence, the text and graphics used should be able to be read from at least this distance. We suggest that written materials displayed on the panels should be no less than 24 point bold lettering

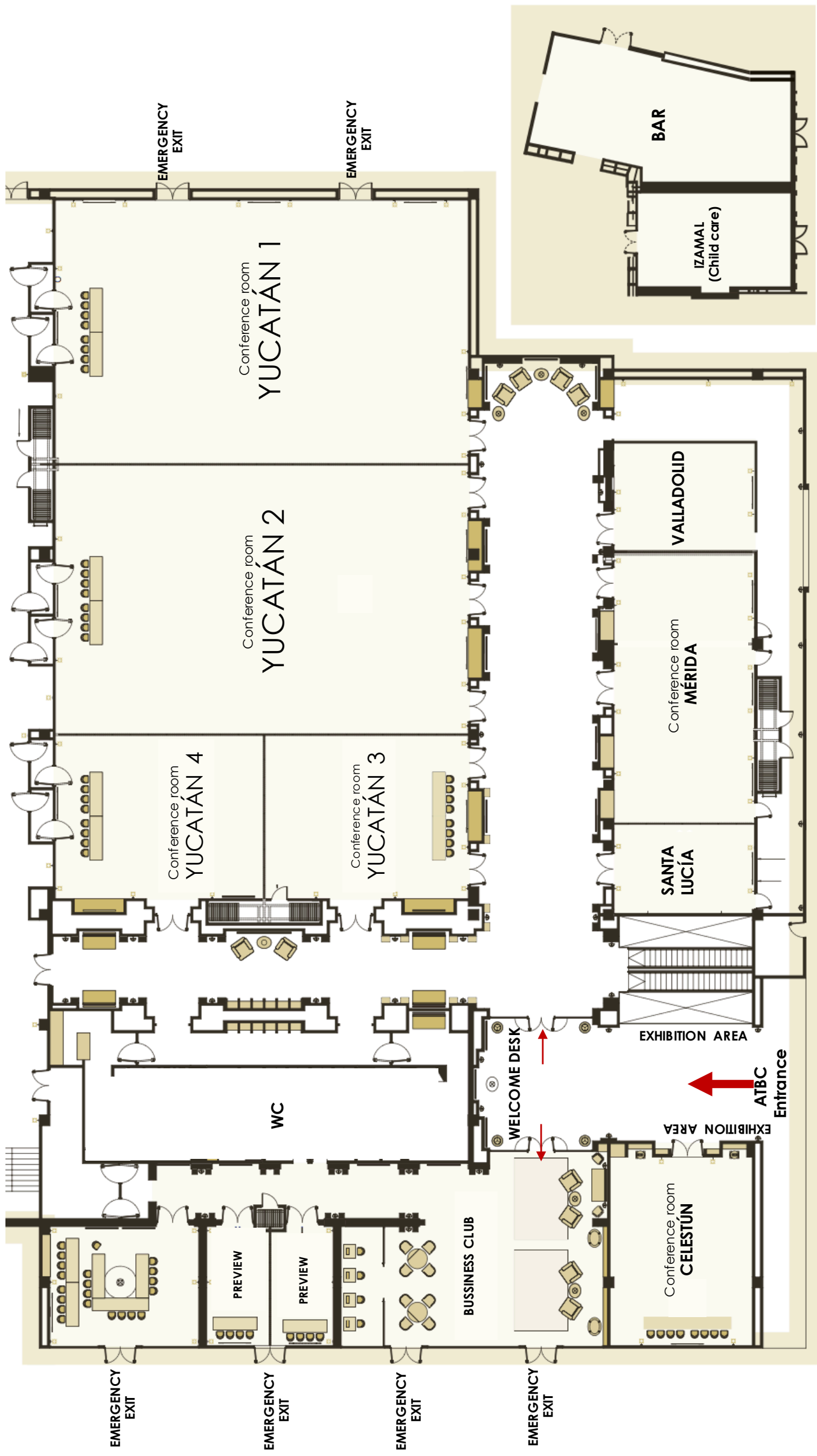
Each selected author have to give a presentation of their poster during their dedicated poster session day. The scientific committee advise each selected author to be present at each poster sessions during ATBC 2017.

MAP OF MERIDA & ATBC 2017 LOCATIONS

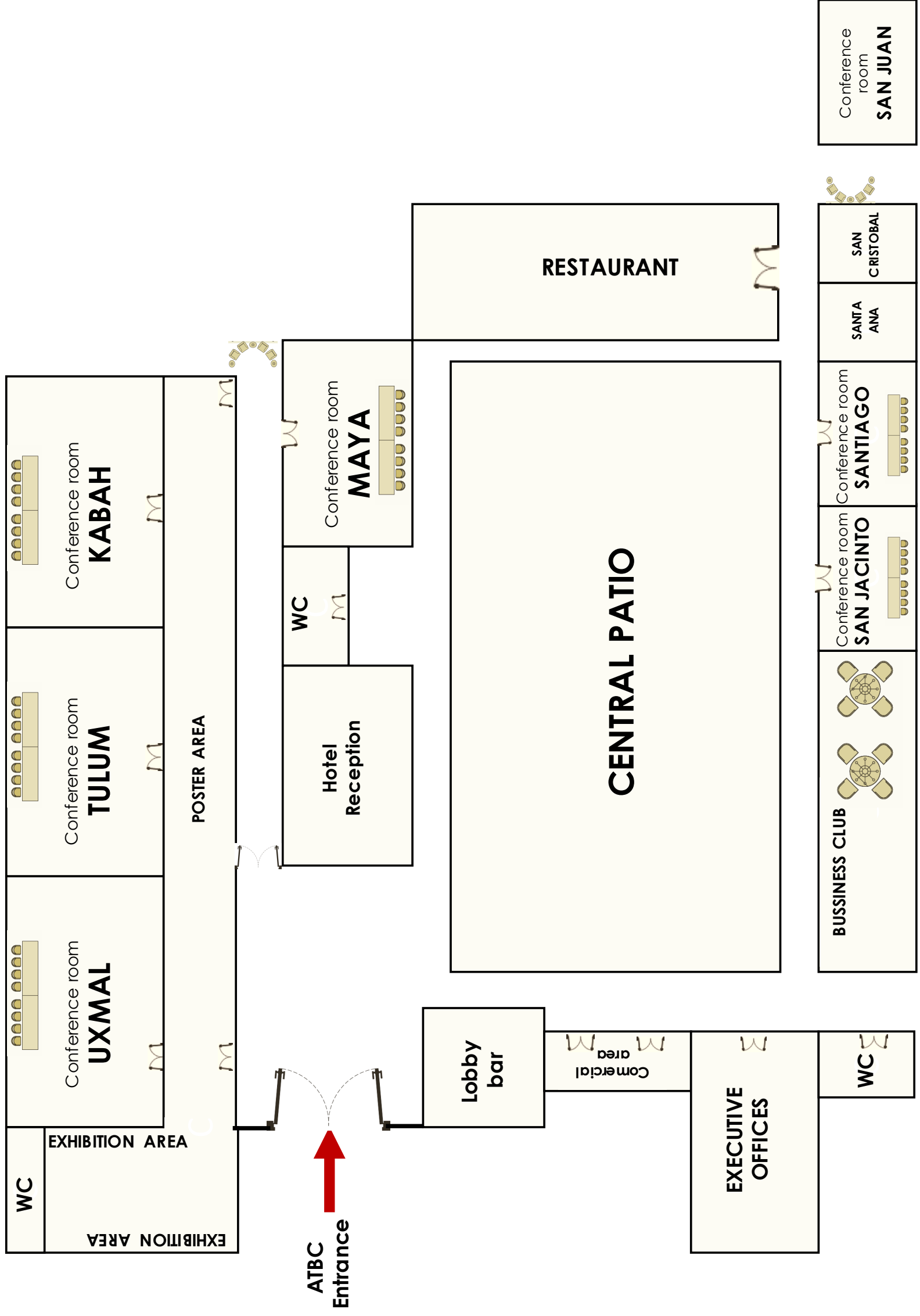


Quinta Montes Molina

VENUE MAP: FIESTA AMERICANA (FA)



VENUE MAP: HOLIDAY INN (HI)



TIME	SITE	SUNDAY July 9th, 2017	MONDAY July 10th, 2017	TUESDAY July 11th, 2017
8:00-9:00	Welcome desk (FA)		REGISTRATION	
9:00-9:30	Yucatán 1 & Yucatán 2 (FA)		Opening welcome	[PS] Panel discussion The future Beyond Paradise: Frontiers in tropical ecology, conservation and society in the Anthropocene Rodolfo Dirzo, Sandy Andelman, José Sarukhán & Lucia Lohmann
9:30-10:30			[PS] Keynote lecture Hoyo Negro: Terminal Pleistocene Megafauna and the First Human of the Yucatan James Chatters	
10:30-11:00	Corridors of FA & HI		COFFEE BREAK	
11:00-13:00	Yucatán 1 (FA)	ARRIVALS REGISTRATION Welcome Desk (FA) From 10:00 hrs WELCOME CEREMONY Yucatán 1 & Yucatán 2 (FA) 16:15 hrs	[SYMP] Trends in plant-pollinator interactions in the tropics	[SYMP] Multiple-use forests: can forest conservation and socio-economic development be combined?
	Yucatán 2 (FA)		[SYMP] Tropical biotic interactions in the Anthropocene	[SYMP] Using functional diversity to understand community and ecosystem processes in tropical dry forests
	Yucatán 3 (FA)		[SYMP] Trees outside forest for biodiversity conservation, ecosystem services and livelihoods	[SYMP] Insect-Plant interactions: patterns and processes in a changing world
	Yucatán 4 (FA)		[SYMP] Tropical leaf phenology: field, remote sensing and modelling	[SYMP] The impacts of agrarian change on local communities: sharing experience from the field
	Mérida (FA)		[SYMP] Advancing Bamboo Ecology, Systematics, and Conservation in the Neotropics	[SYMP] Tropical Pollination Services in the Anthropocene
	Celestún (FA)		[SYMP] Biodiversity responses to landscape structure	[SYMP] Primate conservation in human-disturbed habitats
	Uxmal (HI)		[SYMP] Eliminating a false dichotomy: the importance of human-modified landscapes for conservation plans	[SYMP] Biogeography, ecology and sustainability in Caatinga: the largest dry forest in South America
	Tulum (HI)		[SYMP] The impact of the El Niño on tropical ecosystems	[SYMP] Participatory modeling and games to engage people in science based conservation ecology and planning
	Kabah (HI)		[SYMP] Origins and consequences of genetic and functional variation in tropical oaks under global change	[SYMP] Modeling Tropical Forest Dynamics and Element Cycles in an Era of Global Change
Maya (HI)	[SYMP] Socio-Ecological dimensions of changing fire regimes for tropical biodiversity conservation	[SYMP] Working with others for carnivore conservation: interdisciplinary, participatory and action research		
13:00-14:30	Restaurants of FA & HI San Jacinto (HI) Santiago (HI)		LUNCH	
14:30-16:00	Yucatán 1 (FA)	PRESIDENTIAL ADDRESS Marielos Peña Yucatán 1 & Yucatán 2 (FA) 17:00 hrs WELCOME COCKTAIL Gran Museo del Mundo Maya 18:30 hrs <i>Please check details in highlights</i>	[SE] Soft-skills workshop- Getting published in the sciences	[SE] Soft-skills workshop- Presentation skills
	Yucatán 2 (FA)		[SE] Panel: Lessons in conservation	-----
	Yucatán 3 (FA)		[OS] Biotic interactions in tropical ecosystems I	[SYMP] Multiple-use forests: can forest conservation and socio-economic development be combined?
	Yucatán 4 (FA)		[SYMP] Tropical biotic interactions in the Anthropocene	[SYMP] Using functional diversity to understand community and ecosystem processes in tropical dry forests
	Mérida (FA)		[OS] Seedling and sapling ecology	[OS] Functional aspects of tropical ecosystems
	Celestún (FA)		[OS] Ecology, genetics, and evolution of tropical systems I	[OS] Ecology, genetics, and evolution of tropical systems II
	Uxmal (HI)		[SYMP] Advancing Bamboo Ecology, Systematics, and Conservation in the Neotropics	[OS] Biotic interactions in tropical ecosystems II
	Tulum (HI)		[OS] Soil ecology in tropical systems	[OS] Seed and seedling ecology
	Kabah (HI)		[OS] Human influences on tropical ecosystems and landscapes	[SYMP] Biogeography, ecology and sustainability in Caatinga: the largest dry forest in South America
	Maya (HI)		[OS] Structure, function, and diversity of tropical ecosystems	[OS] Tropical biodiversity and conservation in human modified landscapes
CIS (FA)	[OS] Plant-soil-fungi interactions	[OS] Restoration of degraded tropical ecosystems		
San Juan (HI)	[OS] Biodiversity inventories in tropical ecosystems I	[OS] Invasive species		
16:00-17:00	Corridors of Holiday Inn		COFFEE BREAK & POSTERS	
	Uxmal (HI)		Audiovisual session	Audiovisual session
	Tulum (HI)		Audiovisual session	Audiovisual session
	Kabah (HI)		[SC] Scientific café	[SC] Scientific café
	CIS (FA)		-----	[SE] Exploring Collaboration Between Africa and Latin America for Ecology and Conservation Biology (continuation)
San Juan (HI)		-----	[SE] Neotropical Bamboo Research working group (continuation)	
17:10- 18:10	Yucatán 1 & Yucatán 2 (FA)		[PS] Panel Discussion The human-environment interactions of the Ancient Maya: lessons from the past to future sustainability Anabel Ford, David Lentz, Gerald islebe, Javier Caballero	[PS] Keynote lecture The skin of our coasts: Mangrove services in a rapidly changing environment Exequiel Ezcurra
18:10 - 18:40				[PS] Town Hall Meeting
18:40-19:10				
19:10-19:40				
20:30	Quinta Montes Molina			-----

(FA): Fiesta Americana Hotel (HI): Holiday Inn Hotel

[PS]: Plenary session

[SYMP]: Symposium

[OS]: Oral session

[SE]: Side event

[SC]: Scientific Café

WEDNESDAY

July 12th, 2017

THURSDAY

July 13th, 2017

FRIDAY

July 14th, 2017

SITE**TIME**

WEDNESDAY July 12th, 2017		THURSDAY July 13th, 2017		FRIDAY July 14th, 2017		
REGISTRATION				FIELD TRIPS	Welcome desk (FA)	8:00-9:00
[PS] Debate Land Sparing and Land Sharing: Can we have both? Ivette Perfecto & Ben Phalan		[PS] Debate Are trade and hunting bans on endangered tropical species a "perfect storm" for poaching or an effective conservation strategy Annecoos Wiersema & Duan Biggs			Yucatán 1 & Yucatán 2 (FA)	9:00-9:30
						9:30-10:30
COFFEE BREAK					Corridors of FA & HI	10:30-11:00
[SYMP] Conservation challenges in the agro-forest frontier; past, present and future		[SYMP] The dry tropics: vulnerability and resilience			Yucatán 1 (FA)	11:00-13:00
[SYMP] Defaunation and ecosystem services		[SYMP] Ecological drivers of succession in human-modified landscapes, from local to meta-communities			Yucatán 2 (FA)	
[SYMP] Quantitative acoustic ecology: using sound in tropical biodiversity research and conservation		[OS] Plant-herbivore interactions			Yucatán 3 (FA)	
[SYMP] A landscape perspective on biodiversity conservation and management in oil palm mosaics		[OS] Tree and liana responses to drought and other factors			Yucatán 4 (FA)	
[SYMP] Bridging conservation ecology and genomics in the study of species with Crassulacean Acid Metabolism		[OS] Biodiversity inventories in tropical ecosystems II			Mérida (FA)	
[SYMP] Exploring the fate of tropical forests under drier climates: linking mechanisms to models		[OS] Ecology and conservation of tropical vertebrates			Celestún (FA)	
[SYMP] Structure, function, and dynamics of tropical ecosystems		[OS] Structure, function, and dynamics of tropical ecosystems			Uxmal (HI)	
[SYMP] Lightning talks and networking in tropical science: ATBC-SECSCI Chapter symposium		[OS] Fragmentation effects on ecology of plants and animals			Tulum (HI)	
[SYMP] New Views of Structural Complexity and Tropical Ecosystem Function		[OS] Ecosystem services and tropical systems			Kabah (HI)	
[SYMP] Leaf cutter ants and forest ecosystem processes		[OS] Social and economical drivers of tropical ecosystem change			Maya (HI)	
Mentoring circles (Restaurant: Café Montejo; FA)				Restaurants of FA & HI	13:00-14:30	
LUNCH				San Jacinto (HI)		
				Santiago (HI)		
[SYMP] Conservation challenges in the agro-forest frontier; past, present and future		[SYMP] The dry tropics: vulnerability and resilience		Yucatán 1 (FA)	14:30-16:00	
[SYMP] Defaunation and ecosystem services		[OS] Functional diversity and functional traits in tropical systems		Yucatán 2 (FA)		
[OS] Tropical forests and climate change		[OS] Tropical forest dynamics and functioning		Yucatán 3 (FA)		
[OS] Ecology, genetics, and evolution of tropical systems III		[OS] Morphological, physiological and structural traits of tropical forest plants: from leaves to forest canopy		Yucatán 4 (FA)		
[SYMP] Bridging conservation ecology and genomics in the study of species with Crassulacean Acid Metabolism		[OS] Ecology of tropical secondary forests		Mérida (FA)		
[OS] Effects of hurricane and fire disturbances on tropical ecosystems		[OS] Population and community dynamics		Celestún (FA)		
[OS] Ecology of plant growth		[OS] Biological and social bases for sustainable use of non timber forest products		Uxmal (HI)		
[OS] Diversity changes in environmental gradients		[OS] Conservation initiatives and tropical biology research		Tulum (HI)		
[OS] Ecosystem functioning in secondary and mature tropical forests		[OS] Human development and tropical ecosystems		Kabah (HI)		
[OS] Biotic interactions in tropical ecosystems III		[OS] Coral and other aquatic systems		Maya (HI)		
[SE] Game salon: hands-on demonstration of role-playing games for ecology and conservation		[SE] Workshop: How to publish in high quality scientific journals		CIS (FA)	16:00-17:00	
				San Juan (HI)		
COFFEE BREAK & POSTERS				Corridors of Holiday Inn		
Audiovisual session		Audiovisual session		Uxmal (HI)		
Audiovisual session		Audiovisual session		Tulum (HI)		
[SC] Scientific café				Kabah (HI)		
[SE] Game salon: hands-on demonstration of role-playing games for ecology and conservation (continuation)				CIS (FA)		
				San Juan (HI)		
[PS] Panel discussion The role of secondary forests in restoration and biodiversity conservation Robin Chazdon, Thomas Rudel, Laura C. Schneider, Bernardo B. Neves & Manuel R. Guariguata		[PS] Keynote lecture conservation Medicine and One Health: Addressing the Changing Threats of Disease Emergence, Globalization and Climate Change to Tropical Biodiversity Alonso Aguirre		Yucatán 1 & Yucatán 2 (FA)	17:10- 18:10	
		[PS] Closing ceremony, The Merida Declaration			18:10 - 18:40	
					18:40-19:10	
					19:10-19:40	
		ATBC Banquet		Quinta Montes Molina	20:30	

**** The "Game salon" side event starts at 14:00 hrs

Plenary sessions



SUNDAY

July 9th, 2017 (17:00 hrs)

**Collaboration in Science
(Presidential address)**

Dr Marielos Peña

Presenter: Dr Frans Bongers



The way we do science has changed over time from an individualistic endeavour to a group undertaking. Does collaboration in science allows coping better with the environmental and scientific challenges that society is confronted with? And how do we organize our collaboration? What are the formulas for success and failure? In this presentation I will explore these questions and will highlight some example of successful collaboration that can enhance science, capacity building, and impact on the ground.

MONDAY

July 10th, 2017 (9:30 hrs)

Hoyo Negro: Terminal Pleistocene Megafauna and the First Human of the Yucatan



Dr James Chatters

Presenter: Dr Ek del Val

Biological communities of Central America, although under threat, retain among the highest levels of medium-to-small animal diversity of any ecosystems on earth. They were formerly even more diverse, including a complex megafaunal assemblage as well. Paleontological records of such environments tend to be rare, however, because warm temperatures and acid soils lead to rapid destruction of skeletal remains. The limestone caves of the Yucatan peninsula are proving to be an exception to this pattern, offering an almost unmatched skeletal record of large mammals dating to the time of humans' first arrival in the Americas. Most large mammal discoveries are being made underwater in the submerged caves of Belize and the Mexican state of Quintana Roo. The most spectacular and informative of these is the site of Hoyo Negro.

Located at the confluence of three >600 meter-long tunnels, Hoyo Negro is a 60 meter-diameter collapse chamber that falls 30-45 meters below the tunnel floors and 40-55 meters below the water surface. Before sea level rose at the end of the last glaciation, it was a perfect natural trap. At its bottom, among boulders, heaps of calcite raft sediment, and piles of bat guano, lie the remains of 27 large animals. Others are found in the connecting tunnels.

At least eight extinct species are included among the almost perfectly-preserved skeletons: saber teeth, highland gomphotheres, three species of giant ground sloth, the south American bear *Arctotherium*, and a large canid. One of the sloths is a new genus; the South American carnivores have not been previously documented in Central America. Along with tapirs, peccaries, pumas, and a coati, which remain in the region today, are bobcats and coyotes, which are far outside their modern ranges. Additional tunnels contain remains of glyptodont, extinct llama, and horse. The image is of a highly diverse megafaunal community or closely spaced communities in a complex, dynamic mosaic.

At least some of these many species were extant after 15,000 years ago, when humans first arrived. Among their bones on the floor of Hoyo Negro floor are remains of one of those earliest people, Naia, an adolescent girl. Her nearly complete ~13,000 year-old skeleton is the earliest currently known in the Americas and is providing extraordinary information about the activities, health, and livelihood of the first people of Meso America.

Investigation and, in some cases, recovery of these skeletons from deep under water, in the dark, has posed major technical challenges. Dating them has been problematic. However, their study, together with paleoecological analysis of the calcite raft sediment, stalagmites, guano deposits, and abundant sticks and charcoal, offers an unparalleled opportunity to understand the ecosystems of the terminal Pleistocene Yucatan and the initial impact of people on them.



MONDAY

July 10th, 2017 (17:10 hrs)

The human-environment interactions of the Ancient Maya: lessons from the past to future sustainability

Participants: Dr Anabel Ford, Dr David Lentz, Dr Gerald Islebe, Dr Javier Caballero

Moderator: Dr Jorge Soberón Mainero



The Ancient Maya civilization developed and persisted during more than 3000 years managing a large extension of the Mesoamerican tropical forest, extending, at its peak, from Yucatan peninsula, Guatemala, Belize to Honduras. The flourishing of this civilization accounts for great scientific, cultural and technological advances. Tree farming, biodiversity management in orchards, sophisticated irrigation and soil conservation systems, all indicated continuous adaptive forest management in response to population growth and climate changes during 3000 years (Fedick 2010). The collapse and rapid depopulation of Maya civilization occurred more than 1000 years ago, and these events are the subject of long-standing debates about human-environment dynamics among the Maya and their forest. Did Maya managed or destroyed their forest? Did this human-environment system reach a tipping point? What is the role of climate change (drought) and the interaction with land-stress factors and forest fragmentation? what is the role of social, economical and political drivers? Responses to these questions have generated dozens of influential publications from multiple disciplines, pointing to an emerging consensus on causes resulting from complex and reinforcing coupled human-environment systems interactions (Turner 2012). The evidence suggesting a rapid recovery of forest cover (80-280 years) and soil stabilization (120-280 years) (Mueller et al. 2010), and the large extant diversity of the Maya forest (1000 years after, considered a biodiversity hotspot) (Ford 2015), give us light on the tropical rain forest resilience and the time frame involved. The elevated proportion of the current flora corresponding to plants used by the Maya people, points to the growing evidence that actual tropical rain forest in high diverse regions are not pristine, but managed forests (Barlow et al. 2012). Overall, understanding the Maya socio-ecosystem history will give us lessons on the factors driving biodiversity and sustainability in the face of current and future climatic changes.

TUESDAY

July 11th, 2017 (09:00 hrs)

The future beyond paradise:

Frontiers in tropical ecology, conservation, and society in the Anthropocene

Participants: Dr Rodolfo Dirzo, Dr Sandy Andelman,

Dr José Sarukhán, Dr Lucia Lohmann

Moderator: Dr Patricia Balvanera

More than a decade ago the influential paper “Beyond Paradise—Meeting the Challenges in Tropical Biology in the 21st Century” [Biotropica, 2004, 36(4): 437-446] was published. In that paper major research challenges and gaps in tropical biology and conservation were identified, including the understanding of (1) the evolution, structure and functioning of tropical ecosystems; (2) the nature and magnitude of anthropogenic effects on tropical ecosystems; and (3) the socio-economic drivers of these anthropogenic effects. It was envisaged that in order to reach effective strategies for conservation, restoration, and sustainable management of tropical ecosystems, scientific perspectives must be integrated with social necessities, under three principles: (1) broadening the set of social and biological concerns; (2) integrating biological knowledge with the social sciences and traditional knowledge; and (3) linking science to policy and action. Four broad recommendations were proposed for immediate action in tropical biology and conservation that were thought to be fundamental to all biological and social disciplines in the tropics: (1) assemble and disseminate information on life’s diversity in the tropics; (2) enhance tropical field stations and build a worldwide network to link them with tropical field biologists at their field sites; (3) bring the field of tropical biology to the tropics by strengthening institutions in tropical countries through novel partnerships between tropical and temperate zone institutions and scientists; and (4) create concrete mechanisms to increase interactions between tropical biologists, social scientists, and policy makers. In this discussion panel these research challenges, principles and recommendations will be revisited by senior scientific researchers, economists and policy makers from different disciplines to assess the degree to which tropical biology, conservation, and major social and economic issues have developed during the last decade.



TUESDAY

July 11th, 2017 (17:10 hrs)

The skin of our coasts: Mangrove services in a rapidly changing environment



Dr Exequiel Ezcurra

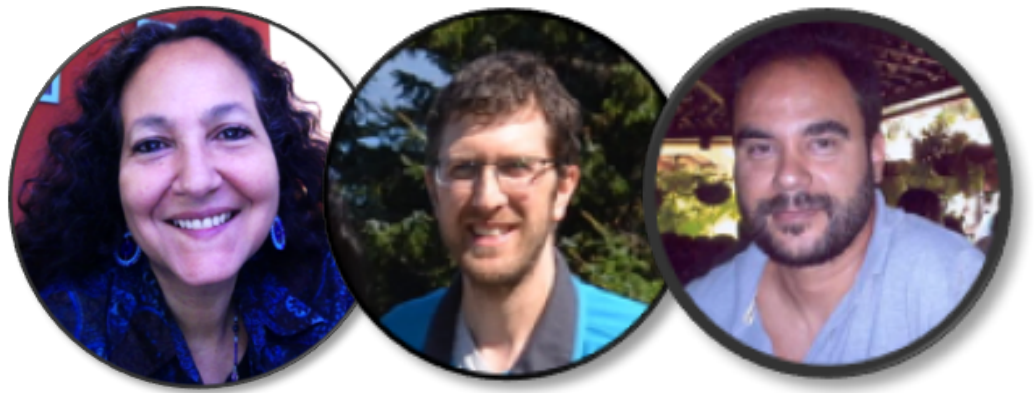
Presenter: Dr Patricia Balvanera

Despite their comparatively small area, globally, mangroves have a disproportionate importance in providing environmental services in the tropics. Recent decades have seen dramatic advances in our ability to quantify the services of coastal lagoons, including (a) coastal protection and risk reduction from extreme weather, (b) fisheries, (c) habitat for migratory waterfowl and birds in general, and (d) mitigation of the effects of sea-level rise. Thanks to these studies, significant progress has been made in advancing conservation efforts in coastal lagoons despite strong opposition from coastal developers. More recently, a number of studies have highlighted the importance of mangroves in sequestering and storing carbon within their sediments. While some mangrove forests accumulate carbon as amorphous organic matter mixed with clay, others form deep layers of peat (partially decomposed but recognizable root tissues). Peat-forming mangroves have been accumulating root remains for thousands of years and harbor belowground carbon contents that can reach many thousand tons in one hectare. Their depth-age curves are invaluable records of sea-level rise during the Holocene. Retention of belowground peat allows some mangroves to accrete vertically and keep pace with sea level rise by growing on their own root remains, and in doing so they have been storing large amounts of carbon in their sediments. The quantification of total belowground carbon allows us to assess the importance of mangroves as carbon sinks, but, perhaps more importantly, radioisotope dating of peat fragments allows us to estimate the long-term rate of carbon sequestration in coastal lagoons.

WEDNESDAY

July 12th, 2017 (09:00 hrs)

**Land-sparing and land sharing:
Can we have both?**



Participants: Dr Ivette Perfecto & Dr Ben Phalan

Moderator: Dr Marcello Tabarelli

How to simultaneously provide food and energy for people whilst conserving biodiversity and ecosystem services is one of the most important questions facing ecologists and conservation biologists in the 21st Century. Of particular concern is whether biodiversity will benefit more from natural ecosystems embedded into, or isolated from productive (agricultural and pastoral) lands. The former strategy, usually termed 'land sharing', involves the retention of small elements of native ecosystems in the agricultural mosaic. This can enable some biodiversity to be maintained within the agricultural landscape, but, some argue that it is often lower-yielding, thus requiring a larger area of farmland to produce a given amount of food. The latter strategy, termed 'land sparing', requires farming at higher yields on a smaller area of land, potentially preventing the conversion (or enabling restoration) of natural ecosystems. The relative effectiveness of the two approaches for biodiversity conservation depends on how individual species respond to changes in agricultural management. If species are relatively resilient to habitat conversion, but are highly sensitive to practices that increase yields of livestock and crops, they will do least badly with a land sharing approach that limits intensification at the potential cost of increased habitat conversion. Alternatively, if species are highly sensitive to habitat conversion (e.g. forest loss) a land sparing approach will be more effective as it maximizes natural habitat conservation whilst concentrating production elsewhere. Because the land sparing approach usually requires a smaller area of land to attain the same yield, and therefore leaves greater areas of natural habitat untouched, it may have the best potential to preserve net biodiversity. Yet, increasing per-hectare productivity, especially in large-scale monocultures, is not likely to solve the hunger and malnutrition in the world, which is largely a consequence of limited access to food and not the overall quantity of food available. Furthermore, increasing yields can often result in a 'rebound effect', accelerating rather than slowing down deforestation, at least locally. Thus, there are still many issues that need to be clarified, and the debate is still open. Some propose that both land sparing and land sharing are needed to promote biodiversity conservation, but others counter that this perspective downplays the clear tension between the two strategies. Is this win-win vision little more than wishful thinking, or can we really combine both?



WEDNESDAY

July 12th, 2017 (17:10 hrs)

The role of tropical secondary forests in conservation and restoration



Participants: Dr Robin Chazdon, Dr Thomas Rudel, Dr Laura Schneider, Dr Bernardo Baeta Strassburg, Dr Manuel Guariguata
Moderator: Dr Frans Bongers



Since the middle of the last century, understanding the effects of human disturbances on the resilience of tropical forests has been central to the study of tropical biology and conservation. In the XXI century, this area of research has grown and broadened, as second-growth forests are becoming the dominant vegetation in tropical regions around the globe due to increasing pressures imposed by human activities on forest ecosystems (e.g., land use change, climate global change, introduction of exotic species). New approaches (functional, phylogenetic, socio-ecological) have emerged to understand the influence of biophysical and human factors on forest regeneration and on the structure, dynamics, and functions of secondary forests. Further, strong concern is mounting regarding the importance of secondary forests for biodiversity conservation, for large-scale reforestation programs, and for the role of these forests in carbon sequestration and mitigating effects of global climate change. This panel will address key questions about the state of the art of the ecology and economics of secondary tropical forests and the role these forests can play for conservation and restoration in the Anthropocene. The panel will include researchers from different disciplines of natural and social sciences that will discuss these aspects and pin-point guidelines for future research and policies for conserving biodiversity and to restore degraded lands in human modified landscapes across the world's tropics.



THURSDAY

July 13th, 2017 (09:00 hrs)

Are trade and hunting bans on endangered tropical species a "perfect storm" for poaching or an effective conservation strategy?



Participants: Dr Anecos Wiersema & Dr Duan Biggs

Moderator: Dr Exequiel Ezcurra

The trade in wildlife threatens more than one third of birds and mammals worldwide, and has driven close to extinction more than 1000 species of trees for timber. Trade bans implemented locally or internationally are intended to curb the loss of these species so that conservation strategies can be implemented that allow the species to recover to viable and robust population levels.

Despite international agreements to ban the trade in numerous species at threat of extinction, in the last five years, illegal trade in highly threatened and endangered iconic species such as elephants, rhinoceros and tigers has risen exponentially questioning the effectiveness of trade bans and sparking heated debate about whether bans are a viable conservation strategy. Strong evidence exists suggesting that bans may actually fuel illegal trade by inflating retail prices and making poaching the only way to acquire the species. For example, at prices of up to \$65,000 per kilo of rhino horn, the stakes for poachers are high and protecting of endangered species has become increasingly more difficult and dangerous. Unwavering demand by consumers for the parts or whole of threatened species despite awareness raising and education campaigns suggest that neither these are viable strategies or that they do not work at the scale or speed required.

To date, the trade or not to trade debate has largely focused on the illegal trade of ivory, tigers and rhino horns. We will ask out debaters to venture beyond trade bans on 'luxury' items, however, so as to explore a highly linked but less-explored discussion - on whether the ban on consumption and trade of bushmeat and wildfoods of threatened species is 'correct' given the importance of this food source and income to impoverished rural families in the tropics. These are delicate and controversial discussions that tropical biologists, conservation scientists and practitioners must have if we are to identify viable conservation solutions that take into consideration the highly complex and intertwined dimensions of ecology and society.

THURSDAY

July 13th, 2017 (17:10 hrs)

Conservation Medicine and One Health: Addressing the Changing Threats of Disease Emergence, Globalization and Climate Change to Tropical Biodiversity



Dr Alonso A. Aguirre

Presenter: Dr Luis Daniel Ávila

According to WWF's Global Living Planet Report 2016, declines in vertebrate populations averaged 58% between 1970 and 2012, including losses of 36%, 38%, and 81% in marine, terrestrial, and freshwater ecosystems, respectively. Humanity has much more to learn about the critical roles that these species play in both complex ecological processes and health, and thus much to lose letting them go extinct. Wildlife is increasingly impacted by encroachment, malnutrition, toxicants, and emerging diseases shared with domestic animals and humans. Indeed, diseases can be catastrophic to already stressed populations becoming leading factors in species declines and extinctions. Recent examples include chytridiomycosis in amphibians, white nose syndrome in bats, Tasmanian devil facial tumors, Ebola virus in great apes, multiple pathogens and neonicotinoids linked to honeybee declines, and nutrient-driven hypoxic dead zones impacting fisheries. Much more should be done to monitor diseases in wildlife in the tropics. Many sylvatic cycles of pathogens are unknown or poorly understood and there is no one international governmental agency that conducts comprehensive ecological surveillance and monitoring of diseases in animals across countries. Even worse, many wild animals are exported to countries that conduct little or no surveillance.

Conservation Medicine and more recently One Health have emphasized the need to bridge disciplines, thereby linking human health, animal health, and ecosystem health under the paradigm "health connects all species in the planet". Transdisciplinarity, integrative research, and capacity building are core elements in establishing interventions that address extant, emerging, and re-emerging pathogens and toxicants that harm humans, wildlife, and other components of biodiversity. Efforts to intervene will need to be both "bottom/local up" and "top/national/international down." Developing practical, sustainable and effective solutions requires a keen understanding of local socio-economic factors and a solid grasp of complex national and regional health and environmental policies. Efforts should begin within each country by developing strategies by the Ministries of Health, Agriculture and Wildlife to work together in common databases and emerging issues. In turn, federal agencies should rely on local scientists who are intimately familiar with these complicated, on-the-ground realities. Consistent with this philosophy and goals, we need to strive to ensure lasting local conservation impacts with global health solutions with every project by training community leaders, volunteers and school children, in addition to professional, in-country experts. Conservation Medicine and One Health offer time-sensitive opportunities to the conservation, veterinary and public health community to reach out for new collaborations with simultaneous benefits for humans, animals, plants and the environment.

SIDE EVENTS

Satellite Meeting

Oaks of the Americas Conservation Network Meeting on Research and Conservation of Tropical Oaks

Organizer: Audrey Denvir

Monday July 10th

14:30 hrs

C.I.S. (Fiesta Americana)

Oaks act as keystone species in a number of tropical systems, including Southeast Asian subtropical broad-leaved evergreen forests, Mesoamerican oak-pine forest, and montane cloud forests. In fact, the two centers of diversity and endemism for oaks are tropical and subtropical regions of China and Mexico.

The Oaks of the Americas Conservation Network (OACN) was founded at the International Workshop for Oak Conservation in Morelia, Mexico in March of 2016. OACN is an interdisciplinary group of experts from botanical gardens, arboreta, universities, conservation NGOs, and government agencies that recognizes the importance of oaks to both temperate and tropical ecosystems in the Americas, as well as the threats to extinction and knowledge gaps that persist surrounding oak species. We are focused on facilitating collaboration across sectors and catalyzing both research and conservation action in order to translate scientific knowledge into effective protection of oaks in the Americas.

Since its founding meeting, the OACN Network has begun to develop a number of oak-focused conservation projects and workshops. For example, we initiated a project that integrates ex situ and in situ conservation actions for *Quercus brandegeei*, a narrow endemic in south Baja California, Mexico. We are also planning a meeting in Honduras this fall to facilitate the development of an international conservation strategy for *Quercus insignis*, a species whose distribution spans from Mexico to Panama but that is rare and threatened in some countries. We are also building capacity to improve taxonomic knowledge of oak species in Mexico, one of the world's two centers of oak diversity.

At this OACN Satellite Meeting, we will give updates on these projects and invite input and collaboration in these efforts moving forward. We will also ask attendees to highlight their own oak research or conservation work in order to identify opportunities for further collaboration towards our goals of filling knowledge gaps and conserving threatened oaks in the Americas. In this way, the OACN Satellite Meeting at ATBC will grow and strengthen the OACN network, identify critical research needs, prioritize conservation objectives, and strategize next steps.

All ATBC conference delegates with an interest in oak research and conservation are encouraged to attend, even if they are not formally a member of OACN. OACN welcomes new members as well as researchers interested in learning more about the network.

Workshop

Exploring Collaboration Between Africa and Latin America for Ecology and Conservation Biology

Organizer: Tuyeni Mwampamba

Tuesday July 11th

14:30 hrs

C.I.S. (Fiesta Americana)

Africa and South & Central America contain the largest surface area of the tropical world, each housing the largest remaining continuous tracks of tropical forests and together, more than 65% of the world's biodiversity. Although they harbor very dissimilar recent mammal fauna, they share many landscape similarities, including the presence of extensive rain forests, savannas, steppes and deserts. Interesting and intriguing commonalities exist in the use and transformation of these landscapes partially due to social, political and historical commonalities, such as, highly natural resources dependent rural communities, poverty, civil war, and dictatorships. These seemingly divergent continents share a plethora of conservation and development challenges that represent opportunities for cross-learning and valuable interchange. Yet, there are very few collaborations in place between ecologists, conservation biologists and conservation practitioners from the 'old' and 'new' tropics. Where of a bounty of studies and exchanges could be happening, a vast vacuum of untapped potential exists. This two-hour workshop, organized by the newly-formed ATBC Africa Chapter, is aimed at exploring potential research topics and collaborations between Africa and Latin America. After hearing from a set of 3 to 4 panelists who have been able to work in both regions, participants will break out in groups to identify potential research topics and collaborative work that could immediately be implemented, and research grants that could fund such work. Our hope is for some of the collaborations formed in Mérida will develop into research, conservation, and capacity building outputs that can be presented in a symposium at the ATBC 2019 meeting in Madagascar.

Working group

Neotropical Bamboo Research working group

Organizer: Belen Fraderique

Tuesday July 11th, 2017

14:30 hrs

San Juan (Holiday Inn)

The limited knowledge about neotropical bamboos is scattered and poorly integrated. The Neotropical Bamboo Symposium will be the perfect set up to showcase recent research and present results on the individual projects. However, many of the objectives that we want to pursue regarding neotropical bamboo research would highly benefit from a follow-up meeting where researchers can synthesize knowledge, express their opinions, and engage on further discussion.

On this working group we propose to review some of the main topics discussed at the symposium and address some of the risen debates. The main objectives that will be addressed during the symposium and this follow-up workshop are 1) the distribution of neotropical bamboo ecosystems and species; 2) the linkages between bamboo taxonomy and ecology; 3) anthropogenic influences on bamboo conservation status; and 4) the influence of bamboo on forest dynamics. For example, on the symposium, several researchers will be presenting studies on the influence of bamboo in forest dynamics in Argentina, Brazil, Peru and Bolivia; on the

working group, we will offer time to discuss what are the similarities and differences between these forests and the bamboos that inhabit them, and to consider the possibility of establishing some collaborative projects that enlarge our understanding on this topic.

This meeting will provide a great opportunity to integrate current information, identify knowledge gaps, determine future directions and establish and strengthen collaborative relations.

Workshop

Game salon: hands-on demonstration of role-playing games for ecology and conservation

Organizer: Trevor Caughlin

Wednesday July 12th

14:00 hrs

C.I.S. (Fiesta Americana)

The complexity of global environmental challenges will require interdisciplinary research that engages stakeholders and results in environmental advocacy and policy change. Role-playing games represent a powerful tool to involve stakeholders in research across a range of fields, including behavioral economics, complex systems analysis and natural resource management. In this workshop we demonstrate five role-playing games designed to exchange information, promote discussion, and solicit feedback from multi-stakeholder groups. These games present land-use scenarios, natural resource management scenarios, and ecological dynamics in a form that can engage a broad audience, and all have been implemented in tropical Latin American countries. This workshop will complement Symposium 6-11, titled "Participatory modeling and games to engage people in science-based conservation," by providing conference attendees an opportunity to actually play the board games presented in the symposium. The workshop will encourage participants to think about using role-playing games through fun, hands-on activities

Workshop

How to publish in high quality scientific journals:

Organizer: Emilie Aimé, Managing Editor, British Ecological Society

Thursday, July 12th

14:30 hrs

C.I.S. (Fiesta Americana)

Submitting to international journals is an important part of a scientist's career. This interactive workshop is designed to introduce early career researchers to the process of publishing in international journals, including how to select the right journal for your work, how to prepare your manuscript, what happens during the review process and how to respond to decision letters and reviews. It will also briefly cover some common policies and practices such as data archiving, open access, ethical practices and authorship issues.

Workshop

Strengthening facilitation skills for conservation: working with others on the case of jaguar management in Calakmul

Organizer: Sophie Calmé & Lou Lecuyer

Saturday July 8th - Sunday July 9th

This is a one-of-its-kind two-day workshop on facilitation aimed at conservation biologists and local actors involved in jaguar management. It will have two facets: (1) responding to the lack of training for conservation biologists and practitioners in group facilitation in order to improve their capacity to work with others, and (2) providing an opportunity for local actors to get involved by using the real case study of jaguar management in Calakmul, Mexico, and to work collaboratively on this issue. Jaguar management will be the common thread of this workshop that will allow actors from diverse sectors to experience integrated learning to develop future collective actions.

The workshop will be hosted by Yorck Graf von Korff, PhD in political science, a certified facilitator by the International Association of Facilitators, a mediator (2 years of continuing education at the University of Bochum/ Germany), and a consultant with 15 years of experience in the design and implementation of participatory methods. He has designed and implemented participatory processes in international cooperation, ecosystem and water management, urban planning, scientific cooperation, intra-organizational change, as well as urban and land planning. For more information, consult <http://flow-ing.fr/projects/>.

Workshop

Fundamentals of GIS for ecology, and species distribution modeling

Organizer: Alice Hughes

July 15th-19th

Centro de Investigaciones Científicas de Yucatán (CICY)

GIS skills are essential to modern day ecologists. No matter what their specialism ecologists have had to acknowledge that species, and ecological phenomena occur in the real world, and that the relationships exist between environmental factors and other species can only be properly understood by acknowledging the spatial relationships and therefore by using GIS techniques.

Species distribution modeling techniques also represent powerful and popular tools to extrapolate from the known records of a species distribution to predict the potential distribution of a species under various conditions, and better understand factors underlying these distributions.

The workshop aims to; A) train students in fundamental GIS tools and techniques using a number of different available software programs; B). teach students how to design and implement studies that utilize GIS techniques, and avoid potentially confounding biases; C). discuss the use of predictive modeling techniques to spatially project species distributions, using various approaches. D). use predictive approaches to project species distributions under changing conditions and: E). use various approaches and spatial statistics to interpret and analyse the results. Further information on the course schedule and structure is available at the base of this document).

During each part of the workshop students will be asked to reflect on how the approaches can directly be used in their own studies, and the final ½ day of the workshop will be available for students to start working with their own data so they have something they can continue to work on following the workshop.

All students will receive a digital booklet compiled for the course that provides explanations for all tasks, background theoretical material and suggested further reading. Students are also encouraged to bring their

own data-sets as there will be the opportunity to start developing their own research using the techniques covered (and any others of interest) in the final afternoon of the four day workshop, or too extend this on for a final two days for advanced students with data.

By the end of the workshops all participants should have the skills to develop and competently use GIS and species distribution modeling techniques in their own research.

Each evening during the workshop students can choose to attend a GIS Clinic: and go through their own study with the instructor on a one to one basis, to design, develop and analyze their own studies-further work on this will also occur on the final day of the workshop, but these appointments will enable students to advance their work further in the final day.

Scientific Cafés

The Scientific Cafés are part of a movement promoted by Duncan Dallas in 1998 in England. Currently, scientific coffees are made in more than 52 countries of the world to generate a spontaneous and more open discussion with non-specialized public about the way scientific research is done.

Within the framework of the ATBC 2017 Meeting, the Scientific Cafés aim to open a space for informal talks on various science and conservation issues. These sessions will promote dialogue between students and academics with diverse interests and points of view for enriching current debates on conservation in the world's tropics.

The Science Cafés are dedicated to an hour and are open to the public, from 16:00 to 17:00 hrs at **KABAH** Conference Room.

•**ECOLOGICAL ASPECTS OF MANAGED FORESTS**

Monday, July 10th
Marielos Peña-Claros

•**CONSERVATION IN THE ANTHOPOCENE**

Tuesday, July 11th
Rodolfo Dirzo

•**ECO-HEALTH AND CONSERVATION MEDICINE**

Wednesday, July 12th
Alonso Aguirre

•**ECOLOGY OF ISLANDS**

Thursday, July 13th
Ana Traveset

Soft-skills workshops

•**GETTING PUBLISHED IN THE SCIENCES**

Monday, July 10th
San Jacinto (Holiday Inn)
Steve Turton

•**PANEL: LESSONS IN CONSERVATION**

Monday, July 10th
Santiago (Holiday inn)

•**PRESENTATION SKILLS**

Tuesday, July 11th
Santiago (Holiday inn)
Alice C. Hughes

•**CONSERVATION IN PRACTICE**

Thursday, July 13th
Santiago (Holiday inn)
Tony Lynam

Business meetings and special group meetings *(By invitation only)*

•**ATBC COUNCIL MEETING**

Saturday, July 8th & Sunday, July 9th
Details sent to the ATBC officers, councilors and additional invited participants.

•**BIOTROPICA EDITORS MEETING**

Tuesday, July 11th
Invitation to this lunch and discussion event will be sent to all relevant editors of Biotropica.

•**2ndFOR WORKSHOP**

Organizers: Francisco Mora, Lourens Poorter, Frans Bongers & Danaë Rozendaal

Saturday July 15th - 16th
Centro de Investigaciones Científicas de Yucatán (CICY)

2ndFOR is a collaborative research network on secondary forests. It focuses on the ecology, dynamics, and biodiversity of secondary forests, and the ecosystem services they provide in human-modified tropical landscapes. To date, the network involves up to 100 researchers from 15 different countries, and has compiled data from up to 1630 plots in 56 sites across Latin America. After two years of work, the network has published two articles in high impact journals (Nature, Science Advances), with two more under review now.

The aim of this workshop is to define a formal organization of the 2ndFOR network. Network structure and strategy, data sharing process, funding opportunities, among other organizational topics will be discussed. The program includes also a discussion of ongoing research collaborations, as well as the identification and framing of new ones. The meeting will take place after the ATBC meeting, between 15-16 July, at the Centro de Investigaciones Científicas de Yucatán (CICY), located in Mérida, Yucatán.

Attendance is by invitation given space constrains. However, if you want to be part of the network by sharing data, or if you have a nice idea you want to test using the network' dataset, please do not hesitate to contact network coordinators, Prof. Lourens Poorter (lourens.poorter@wur.nl), Prof. Frans Bongers (frans.bongers@wur.nl) or Dr. Danaë Rozendaal (danaerozendaal@gmail.com).

HIGHLIGHTS

WELCOME CEREMONY & OPENING CONFERENCE

Sunday July 9th, 16:15 - 18:00 hrs

YUCATÁN 1 & YUCATÁN 2 (FA)

Please join us for our welcome ceremony

WELCOME COCKTAIL

Sunday July 9th, 18:30 hrs

GRAN MUSEO DEL MUNDO MAYA

OPENING WELCOME

Monday July 10th, 09:00 - 09:30 hrs

YUCATÁN 1 & YUCATÁN 2 (FA)

Please join us for the official opening of the meeting.

ATBC TOWN HALL MEETING

Tuesday July 11th, 18:10 - 19:10 hrs

YUCATÁN 1 & YUCATÁN 2 (FA)

ATBC members are kindly invited to meet and discuss various topics such as Conservation, Biotropica, Chapters, Capacity Building Initiatives, etc. We will have break-out groups and it will be a great opportunity for members to learn more about what ATBC is doing and how they can get involved.

GROUP PHOTOGRAPH

Wednesday July 12th, 14:10 hrs

Site to be announced.

CLOSING CEREMONY

Thursday July 13th, 18:10 - 19:40 hrs

YUCATÁN 1 & YUCATÁN 2 (FA)

In this plenary ending session very special and emotive events will take place, including decoration of 2017 ATBC Honorary Fellows, student awards (Alwyn Gentry Award, Luis F. Bacardi Award, Navjot Sodhi Award), the ATBC Merida declaration, presentation of the ATBC 2018 Meeting, and goodbye of the Merida Meeting.

CARBON NEUTRALITY

ATBC members voted at the ATBC Morelia 2007 meeting that their meetings should be carbon neutral, through providing a fee dedicated to supporting regional forest restoration and / or conservation projects. However, this resolution has not been applied at all subsequent meetings. After the Merida meeting, the delegates of future ATBC meetings will be encouraged to contribute with mandatory fees to offset carbon emissions. In Merida, the contribution will be voluntary and the contribution fees have been established based on a carbon emission analysis (including the projected energy expenditure during the meeting, as well as the emissions due to travel of delegates). The Edinburgh Centre for Carbon Management Ltd (<http://www.eccm.uk.com/>) carried out this analysis for the Morelia meeting. For the Merida meeting, we will have very similar carbon emissions to the ones we had in Morelia. The carbon-offset fee will be **US \$ 20 for delegates coming from outside Mexico** and **US \$ 5 for people coming within this country**. The money collected will be allocated to an inter-municipal project in Yucatán managed by the civil organization JIBIOPUUC that, among several communal activities, is dedicated to conserving and restoring the largest tract of old-growth tropical forest remaining in the center of the Yucatan Peninsula (<https://www.youtube.com/watch?v=PQUE9Av49ts>, videoclip in Spanish).



AWARDS

AWARDS FOR STUDENTS AND RECENT PHD DEGREE RECIPIENTS

The **Bacardi Awards** are open to those who have received a PhD, within 5 years of the meeting dates.

To be eligible for the Bacardi Award, an applicant must be a non-student member for 2017 or have just

completed the PhD in Spring 2017. For more information on the award, please see:

<http://tropicalbiology.org/luis-f-bacardi-award/>

The **Alwyn Gentry Award** is presented to a student presenter (one each - oral or poster). Minimum

qualification is to be a paying student member of the ATBC for 2017. For details of the award, please see:

<http://tropicalbiology.org/alwyn-gentry-award/>

Every year the Association for Tropical Biology and Conservation presents the **Navjot Sodhi Conservation Research Award** to a student from a developing country conducting research in tropical conservation biology. This award is in remembrance and recognition of the contributions of our colleague and friend Navjot Sodhi, who inspired many students and colleagues with his passion for research and the conservation of tropical biodiversity. The selected recipient will receive a cash award (typically up to \$500) to be used towards research-related expenses.

NEW PHYTOLOGIST

News Phytologist Poster Prize will be presented to the Best Poster.

HONORARY FELLOWS

In 1963, the Council of the Association for Tropical Biology and Conservation (then known as the ATB) established the selection of Honorary Fellows — “persons of long distinguished service to tropical biology.” This is the highest award given by the Association; to date more than 80 Honorary Fellows from over 15 countries have been elected by the Council. For the ATBC 2017 Meeting, two world-wide recognized tropical biologists will be honored with this distinction: Dr. Ariel Lugo and Dr. Rodolfo Dirzo.

Dr. Ariel Lugo



Dr. Ariel Lugo, currently the Director of the International Institute of Tropical Forestry, Puerto Rico, has been calling attention to the dynamic nature of tropical forest ecosystems throughout his career. Dr. Lugo is a tour-de-force in tropical biology with more than 500 publications and more than 25,000 citations to his work. He has been at the forefront of a shift in tropical biology—transporting it from a focus on “pristine” primary forest sites to a recognition that people profoundly shape and influence tropical ecosystems. His most recent work has emphasized the Anthropocene, novel ecosystems, and urban ecology, based on his experience with forest recovery in Puerto Rico. At one time, these ideas felt controversial, but he was not afraid to stir the pot and address controversial subjects head-on. While some may disagree with his perspectives, he engages all in a civil discourse based on evidence. Now most tropical ecologists fully recognize the Anthropocene, and it is clear that Dr. Lugo was ahead of his time. This forward-thinking approach not only occurred with his more recent global change work, but in his earlier emphasis on tropical secondary forests, the role of plantations in restoration, introduced species, and even his systems-level approach to ecology which was catapulted by measuring biomass in tropical forests. He has consistently chosen subjects and study sites that have not been viewed as glamorous (dry forests, mangroves, secondary forests) and shown their enormous ecological value.

As Director of the International Institute of Tropical Forestry, he threw the USDA Forest Service into the international spotlight combining the best of basic science with application, seamlessly. He provided tremendous opportunities to his staff, university faculty and students, and the general public. Dr. Lugo has spearheaded the development of the excellent infrastructure available at the International Institute of Tropical Forestry (IITF, USDA) and has mentored the staff into an impressive team. He is also a strong advocate for women and minorities within science. If there is someone who he believes has potential, he will work tirelessly and often behind the scenes to bolster that person’s career. He believes in making investments in people. One of the main characteristics of Dr. Lugo is that he is driven by the quest for knowledge. He challenges others in this vein for a deep understanding of ecology. He is a deep thinker who has advanced tropical ecology into a 21st century perspective. He has been strongly involved in ATBC, having served on the ATBC Council in 1986-1986 and as ATBC president in 1991, and continues to attend meetings regularly.



Dr. Rodolfo Dirzo

Dr. Rodolfo Dirzo is currently the Bing Professor in Environment Science and the Director for the Center for Latin American Studies at Stanford University. He is well known for demonstrating the importance of trophic interactions for the ecosystem functions of tropical forest ecosystems. He has published prolifically. Through 15 edited volumes, more than 125 articles in peer-reviewed journals and more than 50 book chapters, Dr. Dirzo has made fundamental contributions to basic research into plant-animal interactions in tropical forests and explored the consequences when human activities disrupt those interactions. His research contributions have been recognized in his appointments as Member of the Mexican Academy of Sciences, Foreign Associate of the US National Academy of Sciences and Foreign Member of the American Academy of Arts and Science. In 1992, he was one of the key promoters of creation of the National Commission for Knowledge and Use of Biodiversity (CONABIO) of the Federal Government of Mexico, which presently has become a world reference in promoting basic and applied science research, compilation and informatics of biodiversity, public outreach of information and knowledge to society as a whole, among other activities.

Dr. Dirzo is an extraordinary teacher and mentor. Overall, he has served as the major advisor of 32 BSc students, 10 MSc students and 21 PhD students. Thirty students worked in his lab in the National Autonomous University of Mexico (UNAM) simultaneously in the early 2000s. Besides the high number of regular courses he has taught in UNAM, Stanford University and other academic institutions, Dr. Dirzo has participated in 29 courses with the Organization for Tropical Studies, generously helping to train a generation of tropical biologists. In outreach activities, Dr. Dirzo has published more than 20 popular articles that make tropical forest science accessible to a wider audience and made more than 550 presentations in Mexico and more than 200 presentations in the USA and other countries. This public outreach is a crucial contribution in our troubled political times. We can no longer assume that science will inform public policy. In this context, Dr. Dirzo continues to reach out to the public to counter misinformation. Finally, it should be noted that Dr. Dirzo has been a long-time supporter of ATBC. He served as Program Chair for the 1991 and 1994 ATB meetings held in San Antonio, Texas (United States) and Guadalajara, Mexico, respectively, served as President of ATBC in 1994, served as member of the ATBC Council in 1991-1992, and continues to attend ATBC meetings regularly.



Field trips

July 14th, 2017

For more information and booking visit:

<https://www.atbc2017.org/field-trips>

Uxmal and San Antonio Mulix, Yucatán

Just 48 miles from Merida sits one of the most majestic pre-Hispanic ruins of Mexico: Uxmal, considered by many archaeologists the epitome of late Mayan architecture. For its monumental structures, the exquisite details of its façades, and excellent state of preservation, this ancient city was declared a World Heritage Site by UNESCO in 1996.

The ruined hacienda of San Antonio Mulix is not far from Mérida around 49 kms after leaving The Periferico. There are two cenotes: X-Batún and Cenote Dzonbacal. A cenote is a natural pit, or sinkhole, resulting from the collapse of limestone bedrock that exposes groundwater underneath. Especially associated with the Yucatán Peninsula of Mexico, cenotes were sometimes used by the ancient Maya for sacrificial offerings.

The objective of the trip is to combine the rich cultural past of the area (Uxmal) and the typical landscape of the northern region of the Peninsula and especially its karstic landscape and its cenotes.

Xcambó Archaeological site and surrounding ecosystems

The northernmost portion of the Yucatan peninsula is an island of dry ecosystems surrounded by the sea to the north, east and west, and humid ecosystems to the south. Such isolation means the region is home to many endemic taxa and interesting vegetation associations. From N to S we first encounter the coastal dune, then saltmarshes, mangroves and coastal lagoon, which is home to rich and beautiful bird communities that include flamingos, herons, and storks and endemics like the Yucatan Wren and Mexican Sheartail Hummingbird. The Yucatan Calichal follows; it is the driest ecosystem in the Peninsula and occurs over a sheet of impermeable rock. It is the home of an alternating extremely dry/partially flooded ecosystem. Further south is tropical dry forest. Arguably, the most interesting of all these ecosystems is the Calichal, where about one-half of the Peninsula's endemic plant species occur. On this field trip, we will visit the Xcambó Archaeological Zone and surrounding areas, where we will see examples of all the aforementioned habitat types. Xcambó dates from the Maya classical period (250-900 AD) and was an important center of salt production and distribution. It is surrounded by salt marshes, mangrove, and water springs. Along the way, we will see the coastal lagoon with its teeming bird life. Then we will head south approximately 5 km to explore tropical dry forest with populations of the endemic *Beaucarnea pliabilis* (Despeinada) and the locally endangered *Guaiacum sanctum* (Guayacán, Hollywood lignum vitae). Then we will return ca. 4 km northbound to a site where the Calichal is well-developed with most of the succulent plant species of the Yucatán Peninsula. We will end the tour with a delicious seafood lunch in the nearby village of Chichxulub, which gave its name to the meteor that is suspected to have caused the extinction of the dinosaurs. Accompanying you on the trip will be experts on the region's botany and avifauna.

El Cuyo- Ria Lagartos Biosphere Reserve

The trip will visit the birding hotspot of El Cuyo inside the Ria Lagartos Biosphere Reserve. Our birding site is known as "Paraiso Escondido" or "Hidden Paradise," an ecotourism and conservation ranch adjacent to the reserve. The ranch's bird list includes 189 species; you will have the possibility of seeing all of the Peninsula's non-island endemics and quasi-endemics like the Mexican Sheartail Hummingbird, Yucatan Wren, Orange Oriole, and Black Catbird. The rancho includes 8km of birding trails that cover three major vegetation types: mangrove, semi-flooded lowland forest, and medium subdeciduous forest. There is also a wetland with two observation towers. On the trip, we will be accompanied by a certified guide. In addition to birding at the ranch, we will take a boat tour of the coastal inlet where are almost guaranteed to see flamingos and other waterbirds. There will also be free time to spend in the village of El Cuyo and at its beautiful beach. Housing will be in very comfortable cabañas on the ranch, with private bathrooms and 24 hour electricity. On the way back to Merida, we will have time to go for a swim in a "cenote" or water-filled sink hole. The trip is co-organized with Pronatura Peninsula de Yucatan (www.pronatura-ppy.org) a local conservation organization.

Kaxil Kiuic Biocultural Reserve

The Kaxil Kiuic Biocultural Reserve is an area of 1800 ha with little recent human influence located in the Puuc region of Yucatan. However, there is evidence of human settlements which date back 3,000 years and there is a great diversity of flora and fauna, all of which makes it an important area in which humans can learn about both the Mayan civilization and nature.

The reserve harbours an important archaeological site (Kiuic), and constitutes an Environmental Management Unit, managed by Kaxil Kiuic A.C. It is a living laboratory where research and education are carried out to disseminate knowledge and to help sustain the reserve's biological and cultural resources.

The vegetation is classified as seasonally dry (semi-evergreen) tropical forest, most of it old secondary (> 60 y of abandonment after traditional shifting agriculture), with a 10-15 m-tall canopy. The reserve is part of an intensive carbon-monitoring site which harbors an eddy-covariance flux tower, as well as forest inventory and carbon monitoring plots managed by the Scientific Research Center of Yucatan (CICY).

The objective of the trip is to visit and learn about both the past and present Mayan cultural background (there is an active and ongoing archaeological research program in the reserve, which is surrounded by living Mayan communities), and the biodiversity it harbours, as well as about the long-term biological research carried out in it, including plant physiological, botanical and ecological studies on forest structure, diversity, composition, successional dynamics, and carbon dynamics.

Cenotes

The diversity and biomass of the underwater cave restricted fauna (stygo fauna) in the Yucatan Peninsula (YP) is dominated by 45 crustacean species out of a total of 47 freshwater and anchialine species described at the time (Álvarez & Iliffe 2008; Álvarez et al. 2015). The trophic structure of anchialine systems is simple and composed by a small number of levels with few species. Pohlman et al (2011) suggest only three trophic levels: Producers, including: photosynthetic, aphotic chemosynthetic and detrital organisms, primary consumers and generalist or opportunistic predators and scavengers.

Nutrients and organic matter can reach the anchialine systems by several processes: lixiviation and filtration of the surrounding soil into the cenote and aquifer (Pohlman et al. 2000), brought into the cenotes by other external organisms, or may be produced in the cenotes or caves. Primary production in caves is limited and is generated by photosynthetic organisms that thrive exclusively in the sunlit cenotes or by chemosynthetic prokaryotes that occur in caves. Primary consumer stygo fauna in the YP is mainly composed of crustacean species (Álvarez & Iliffe 2008) which have specialized filtering or scavenging feeding strategies, either on the benthos or the water column. Predators in these ecosystems are the larger crustaceans and fish.

TOURISTIC TOURS

Merida City tour & foodie experience Mérida, Mérida

Discover the main historical buildings of Mérida, such as: the Cathedral of San Ildefonso, Governors Palace, home of the founder of Mérida Francisco de Montejo and the majestic Avenue of Paseo de Montejo making stops along the way to enjoy the traditional Yucatecan gastronomy through its delicious fresh bread, fresh water and a yucatecan craft beer accompanied with typical snacks.

Izamal Magic town of Mexico

Izamal is a beautiful colonial town founded in the middle of the 16th century on the vestiges of an ancient Mayan city; Its most important building, the Convent of Our Lady of Izamal, was built on the ruins of a Mayan shrine called Pap-hol-chac. In 1992, Izamal received the visit of St. John Paul II, who celebrated a memorable mass in the great atrium that precedes the temple of the Immaculate Conception and the former Convent of San Antonio de Padua.

Uxmal & lunch at Hacienda Ochil

Visit to the archaeological site of Uxmal, one of the most powerful and beautiful Mayan cities. Its name means "the three times built" thanks to the fact that it had to be rebuilt three times during its time. The guided tour of the archaeological site is approximately 2 hours where you will admire the architecture made up of palaces and buildings with multiple details. After the visit you will enjoy a delicious lunch at Hacienda Ochil where you will be able to enjoy a great variety of our Yucatecan gastronomy.

Chichen Itza & Cenote Ikkil

The pre-Hispanic city of Chichen Itza was the most outstanding capital of the Maya area, at the end of the Classic period and the beginnings of the Postclassic period. The cenotes were sacred places for the Mayas, representing the gateway to the underworld (place where their gods lived).

Hacienda & Cenote Experience

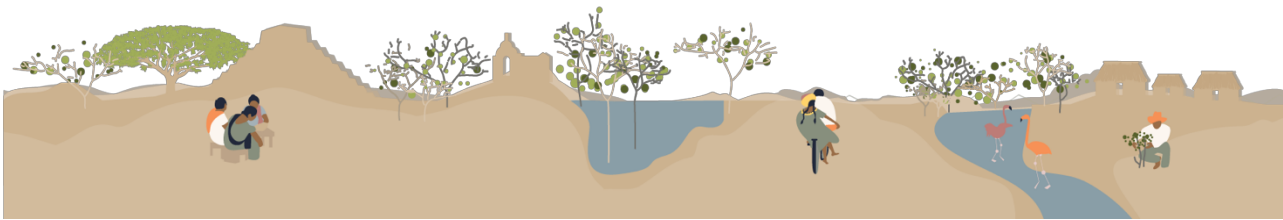
During the visit to the Hacienda Viva, visitors will be able to travel in time, transported on wooden platforms called "trucks" which are pulled by "mules" on rails of Decauvillem as originally used by workers. You will be able to witness every step of the transformation process of the Henequén (also called Green Gold in the region), from the fiber plant, and from the fiber to the finished product.

Pink Flamingos & bird watching at Celestún

One of the best beaches in Yucatan with the particularity and color that gives you more than 300 species that inhabit the reserve, especially pink flamingo. Enjoy a tour of the celestun estuary aboard a boat managed by a guide of the biosphere who will take you to see the pink flamingo and the freshwater eye that emerges as an oasis in the middle of the salt water. At the end of the tour you will enjoy a delicious meal in front of the sea.

Monday

July 10th, 2017



TIME		SITE		MONDAY July 10th, 2017	
8:00-9:00	Welcome desk (FA)	REGISTRATION			
9:00-9:30	Yucatán 1 & Yucatán 2 (FA)	Opening welcome			
9:30-10:30		[PS] Keynote lecture Hoyo Negro: Terminal Pleistocene Megafauna and the First Human of the Yucatan James Chatters			
10:30-11:00	Corridors of FA & HI	COFFEE BREAK			
11:00-13:00	Yucatán 1 (FA)	[SYMP] Trends in plant-pollinator interactions in the tropics			
	Yucatán 2 (FA)	[SYMP] Tropical biotic interactions in the Anthropocene			
	Yucatán 3 (FA)	[SYMP] Trees outside forest for biodiversity conservation, ecosystem services and livelihoods			
	Yucatán 4 (FA)	[SYMP] Tropical leaf phenology: field, remote sensing and modelling			
	Mérida (FA)	[SYMP] Advancing bamboo ecology, systematics, and conservation in the Neotropics			
	Celestún (FA)	[SYMP] Biodiversity responses to landscape structure			
	Uxmal (HI)	[SYMP] Eliminating a false dichotomy: the importance of human-modified landscapes for conservation plans			
	Tulum (HI)	[SYMP] The impact of the El Niño on tropical ecosystems			
	Kabah (HI)	[SYMP] Origins and consequences of genetic and functional variation in tropical oaks under global change			
	Maya (HI)	[SYMP] Socio-Ecological dimensions of changing fire regimes for tropical biodiversity conservation			
13:00-14:30	Restaurants of FA & HI	LUNCH			
	San Jacinto (HI)	[SE] Soft-skills workshop- Getting published in the sciences *			
	Santiago (HI)	[SE] Panel: Lessons in conservation *			
14:30-16:00	Yucatán 1 (FA)	[OS] Biotic interactions in tropical ecosystems I			
	Yucatán 2 (FA)	[SYMP] Tropical biotic interactions in the Anthropocene			
	Yucatán 3 (FA)	[OS] Seedling and sapling ecology			
	Yucatán 4 (FA)	[OS] Ecology, genetics, and evolution of tropical systems I			
	Mérida (FA)	[SYMP] Advancing Bamboo Ecology, Systematics, and Conservation in the Neotropics			
	Celestún (FA)	[OS] Soil ecology in tropical systems			
	Uxmal (HI)	[OS] Human influences on tropical ecosystems and landscapes			
	Tulum (HI)	[OS] Structure, function, and diversity of tropical ecosystems			
	Kabah (HI)	[OS] Plant-soil-fungi interactions			
	Maya (HI)	[OS] Biodiversity inventories in tropical ecosystems I			
	CIS (FA)	[SE] Oaks of the Americas Conservation Network Meeting on Research and Conservation of Tropical Oaks			
16:00-17:00	Corridors of Holiday Inn	COFFEE BREAK & POSTERS			
	Uxmal (HI)	Audiovisual session			
	Tulum (HI)	Audiovisual session			
	Kabah (HI)	[SC] Scientific café			
17:10-18:40	Yucatán 1 & Yucatán 2 (FA)	[PS] Panel Discussion The human-environment interactions of the Ancient Maya: lessons from the past to future sustainability Anabel Ford, David Lentz, Gerald Islebe & Javier Caballero			

*The lunch will be served in these sessions

(FA): Fiesta Americana Hotel (HI): Holiday Inn Hotel

[PS]: Plenary session

[SYMP]: Symposium

[OS]: Oral session

[SE]: Side event

[SC]: Scientific Café

SYMPOSIA

MONDAY July 10th, 2017

YUCATÁN 1 [Venue: FA]

Trends in plant-pollinator interactions in the tropics

Organizers: Marcia Motta Maues & Blandina Felipe Viana

This symposium will focus on plant-pollinator interactions in natural habitats and agroecosystems, in the tropical region, bringing new studies about the diversity of pollination systems, as well as the conservation and potential use of pollinators.

TIME	PRESENTATION
11:00	Introduction
11:15	Science for the conservation of mexican hummingbirds [ID:1117] María Del Coro Arizmendi, Humberto Berlanga, Claudia Isabel Rodríguez-Flores, Victor Vargas Canales, Leobardo Monroy Leyva & Rafael Lira Saade
11:30	Bees as pollinators, conservation policies and their management in Mexico [ID:1113] Ricardo Ayala
11:45	Save our bats, save our tequila. Industry and science working for pollinators [ID:1118] Rodrigo Medellín, Roberto Trejo, David Suro, Luis Eguiarte & Begoña Iñárritu
12:00	Resilient pollinators mitigate effects of disturbance in the most important Amazonian fruit crop [ID:1116] John Alistair Campbell, Marcia Motta Maues, Luisa G. Carvalheiro, Rodolfo Jaffe Ribbi, Tereza C. Giannini, Madson A.B. Freitas & Cristiano Menezes
12:15	Land sharing and agricultural investments: to conserve pollination services and crop yields [ID:1115] Juliana Hipólito, Blandina Viana & Lucas Garibaldi
12:30	Coffee pollination: pollinator diversity and ecological intensification [ID:1114] Carlos Vergara
12:45	Conclusions

YUCATÁN 2 [Venue: FA]

Tropical biotic interactions in the Anthropocene

Organizers: Carlos Garcia-Robledo, Erin Kuprewicz & Tyler Kartzinel

This symposium considers the topic of biotic interactions (e.g., herbivory, seed dispersal, pollination, plant-fungi interactions) and how these interactions may be maintained, altered, or lost in an era of rapid global change.

TIME	PRESENTATION
11:00	Introduction
11:15	Exposure to the leaf litter microbiome of healthy adults protects seedlings from pathogen damage [ID:1151] Natalie Christian, Edward Allen Herre, Luis C. Mejía & Keith Clay
11:30	The effects of drought on tropical dry forest shelter-building caterpillars [ID:1153] Christina Baer, Hannah Franko, Patricia Parker & Robert Marquis
11:45	Thermal tolerance of plant - insects interactions: implications for global warming [ID:1157] Carlos Garcia-Robledo, Erin K. Kuprewicz, W. John Kress, Terry L. Erwin & Charles L. Staines
12:00	Wildlife diets and microbiota: climate and African megaherbivores shape ecological networks [ID:1158] Tyler Kartzinel
12:15	The insidious effects of global warming on tropical plant-animal interactions [ID:1154] Erin Kuprewicz & Carlos Garcia-Robledo
12:30	Seed disperser loss affects community assembly, species diversity, and forest structure [ID:1159] Haldre Rogers, Elizabeth Wandrag, Amy Dunham, Evan Fricke & Ross Miller
12:45	Phylogenetic diversity loss does not capture functional diversity loss [ID:1152] Brunno F. Oliveira, Brett R. Scheffers & Gabriel C. Costa
13:00	LUNCH
14:30	Robustness of mutualistic networks to cascading effects [ID:1156] Marília Palumbo Gaiarsa & Paulo Roberto Guimarães Junior
14:45	Vertical stratification: a new gradient in biogeography [ID:1155] Brett Scheffers & Bruno Oliveira

15:00 **Impacts of habitat fragmentation on components of diversity and biomass in plant communities [ID:1159]**

Onja Razafindratsima, Kerry Brown, Fabio Carvalho, Patricia Wright & Amy Dunham

15:15 **Conclusions**

YUCATÁN 3 [Venue: FA]

Trees outside forest for biodiversity conservation, ecosystem services and livelihoods

Organizers: Geovana Carreno-Rocabado & Maarten van Zonneveld

The underestimated role of trees outside forest for biodiversity conservation, ecosystem services and livelihoods

TIME	PRESENTATION
11:00	Introduction
11:15	Tropical ecosystem services [ID:250] Milena Holmgren, Edwin Bargeman, Rafael Bernardi, Alice Blok, Morten Bongers, Jasper Buijs, Ivan Hernández-Salmerón, Henjo de Knegt, Rocio Martínez-Cillero, Nestor Mazzeo & Bart Verdijk
11:30	Trees outside forest: biodiversity conservation, ecosystem services [ID:1097] William Javier Caicedo Albán, Jenny Ordoñez, Geovana Carreño-Rocabado, Bryan Finegan & Miguel Cifuentes
11:45	Functional Diversity in Agroforestry Systems of Central America [ID:1093] Vanessa Ruenes Vargas, Jenny Ordoñez, Diego Delgado, Jimena Esquivel, Kauê De Sousa, Hernán Andrade & Fernando Casanoves
12:00	Species-area relationship for trees on farms in Nicaragua-Honduras Sentinel Landscape [ID:1095] Geovana Carreno-Rocabado, Freddy Amores, Willan Caicedo, Eduardo Somarriba & Jenny C. Ordonez
12:15	Gender and agroforestry: considerations for climate change [ID:1094] Tatiana Gumucio, Jennifer Twyman, Jorge Sellare, Geovana Carreno & Monica Clavijo
12:30	Participatory nursery trials to conserve tropical tree species and genetic diversity [ID:1096] Maarten Van Zonneveld, Judy Loo & Julio Javier Madrid
12:45	Conclusions

YUCATÁN 4 [Venue: FA]

Tropical leaf phenology: field, remote sensing and modelling

Organizers: Cecilia Chavana-Bryant, Yadvinder Malhi & France f. Gerard

Leaf phenology in tropical forests: observations and theories from the field, remote sensing and DGVM modelling community.

TIME	PRESENTATION
11:00	Introduction
11:15	The use of digital cameras to track leaf phenology and productivity in the tropics [ID:-] Bruna Alberton, Andrew Richardson, Ricardo S. Torres, Humberto Rocha, Magna S. B. de Moura & L. Patricia C. Morellato
11:30	Remotely sensed seasonal canopy dynamics in the tropics: a riddle of many scales [ID:1070] Cecilia Chavana-Bryant, Yadvinder Malhi, Athanasios Anastasiou, Eric G. Cosio Caravasi, Charles T. George, Gregory P. Asner & France F. Gerard
11:45	Tropical vegetation in global vegetation models: plant functional types and other simplifications [ID:1067] Toby Marthews & Eleanor Blyth
12:00	Remote sensing detection of the Amazon phenology [ID:1066] Luiz Aragao, Liana Anderson, Fabien Wagner, Yhasmin Moura, Lenio Galvú, Carolyne Machado, Gabriel Bertani, Egidio Arai, Cibele Amaral & Thomas Hilker
12:15	Modeling leaf phenological diversity across East Africa [ID:1065] Kyla Dahlin & Ryan Nagelkirk
12:30	Maps of the synchrony of net leaf phenology from MODIS NDVI and EVI for Meso- and South America [ID:1064] France Gerard, Graham Weedon, Charles George, Garry Hayman, Cecilia Chavana-Bryant, Javier Silva-Espejo, Norma Salinas & Alejandro Araujo Murakami
12:45	Conclusions

MÉRIDA [Venue: FA]**Advancing Bamboo Ecology, Systematics, and Conservation in the Neotropics**

Organizers: Belen Fadrique, Cara Rockwell & Joseph Veldman

To synthesize current knowledge about Neotropical bamboo species and ecosystems, this multidisciplinary symposium will bring together bamboo researchers with a wide range of expertise in systematics, ecology, physiology, and conservation.

TIME	PRESENTATION
11:00	Introduction
11:15	Bamboo diversity, systematics and evolution, with a focus on the Neotropics [ID:1173] Lynn Clark & Rejane Patrícia De Oliveira
11:30	Exceptional dynamism in bamboo-dominated forests in the western Amazon [ID:-] William Farfan-Rios & Miles R. Silman
11:45	A fire hypothesis for the maintenance of bamboo thickets and forests as alternative ecosystem states [ID:1180] Joseph Veldman & Juan Carlos Licona
12:00	Forest dynamic influenced by the dominance of native bamboo in the Atlantic Forest [ID:1172] Débora Cristina Rother, Ana Elena Muler, Renato Augusto Ferreira de Lima, Pedro Jordano, Ricardo Rodrigues & Marco Aurélio Pizo
12:15	Life Cycle Length and Flowering Waves of Bamboo in Southwest Amazon [ID:1175] Anelena Lima de Carvalho
12:30	Endemism of the Mexican bamboos: efforts for conservation [ID:1171] Eduardo Ruiz-Sanchez & Guadalupe Munguía-Lino
12:45	Diversity, ecophysiology and genetic variability in Venezuelan Andean woody bamboos [ID:1176] Francisca Ely, Fermin Rada, Gustavo Fermin, José David Fernández, José Vicente González & Lynn G. Clark
13:00	LUNCH
14:30	The forest beyond the trees: woody bamboos in the spotlight of degraded subtropical forest [ID:1177] Lia Monti, María Genoveva Gatti, Paula I. Campanello, Silvia C. Zaninovich, Sonali Saha, Mariana Villagra & Guillermo Goldstein
14:45	Climatic tolerance and distribution of native bamboo along an Andes-Amazon elevation gradient [ID:1181] Belen Fadrique & Kenneth Feeley
15:00	Multiple recurrent disturbances facilitate monodominance in a North American bamboo [ID:1179] Paul Gagnon
15:15	Advancing Bamboo Ecology, Systematics, and Conservation in the Neotropics: Future Steps [ID:1182] Cara Rockwell, Belen Fadrique & Joseph Veldman
15:30	Conclusions

CELESTÚN [Venue: FA]**Biodiversity responses to landscape structure: Threats and conservation strategies across scales****Organizers:** Víctor Arroyo-Rodríguez, Felipe P. L. Melo & Braulio A. Santos

Neotropical forests are subjected to unprecedented changes in landscape composition (e.g. forest loss) and configuration (e.g. fragmentation). Using a multi-scale and multi-taxonomic approach, this symposium assesses the relative effect of these two components of landscape structure on biodiversity, ecological processes and ecosystem functioning, identifying biodiversity-friendly conservation strategies across spatial scales.

TIME	PRESENTATION
11:00	Introduction
11:15	Relative effect of forest loss and fragmentation on biodiversity in the Lacandona rainforest, Mexico [ID:1007] Víctor Arroyo-Rodríguez, Emilia Carrara, Adriana Garmendia, Manuel A. Hernández-Ruedas, Carolina Rojas, Giovanni V. Russildi, Hilda A. Sánchez-de-Jesús, Miriam San-José & Romeo A. Saldaña-Vázquez
11:30	Multi-scale effects on biodiversity and ecosystems services provision in coffee plantations [ID:1010] Jean Paul Metzger, Felipe Librán-Embid, Fernanda Saturni, Natalia Aristizabal, Adrian González, Andrea Larissa Boesing, Carolina Montealegre & Camila Hohlenweger
11:45	Impacts of landscape urbanization on plant and animal assemblages in the Brazilian Atlantic Forest [ID:1008] Braulio Santos
12:00	Response of plant species diversity to forest cover, water availability and chronic disturbance [ID:1011] Kátia F. Rito, Víctor Arroyo-Rodríguez, Edgar E. Santo-Silva, Inara R. Leal & Marcelo Tabarelli
12:15	Response of the seed rain to landscape structure in two fragmented rainforest regions [ID:496] Miriam San-José, Víctor Arroyo-Rodríguez, Felipe Melo, Jorge A. Meave & Miguel Martínez-Ramos
12:30	Functional composition of tree assemblages across human-modified Tropical landscapes [ID:1012] Felipe Melo, Gabriel Mendes, Thiago Gonçalves-Souza, Marcelo Tabarelli, Deborah Faria & Braulio Santos
12:45	Conclusions

UXMAL [Venue: HI]**Eliminating a false dichotomy: the importance of human-modified landscapes for conservation plans****Organizers:** Mario Marcos Espírito-Santo & Sandra Milena Durán

Learning from social and ecological perspectives to increase the recognition of the fundamental importance of human-dominated landscapes to reconcile biodiversity conservation and environmental justice, preserving the livelihoods of local communities in tropical regions.

TIME	PRESENTATION
11:00	Introduction
11:15	Is the creation of protected areas a perverse policy for social-ecological systems? [ID:1027] Felisa Anaya, Mário Marcos Do Espírito Santo & Júlia Veloso dos Santos
11:30	The agroecological matrix approach to the conservation of biodiversity at the landscape level [ID:1023] Ivette Perfecto & John Vandermeer
11:45	Biodiversity and ecosystems services provision in Latin American agricultural landscapes [ID:1028] María Jimena Esquivel, Marcia Gómez, Alejandra Martínez-Salinas, David Styles & Robert Brook
12:00	Forest conservation in no man's land: protected areas and forest loss in the Catatumbo basin [ID:1025] Carlos Portillo-Quintero & Zhanming Wan
12:15	Managing for functional response diversity – a cross-scale approach to enhance ecological resilience in tropical landscapes Dylan Craven
12:30	Conservation inside and outside protected areas: the intensification of social-environmental conflicts in Brazil Mário Marcos do Espírito Santo, Felisa C. Anaya, Rômulo S. Barbosa, Marcos E. Leite, André M. Rocha, Carlos Magno S. Clemente
12:45	Conclusions

TULUM [Venue: HI]**The impact of the El Niño on tropical ecosystems****Organizer:** Yadvinder Malhi

This symposium assembles studies that explore the impacts of the strong 2015/2016 El Niño on tropical ecosystems, welcoming contributions across disciplines including field studies, socio-ecological studies, climate studies, satellite remote sensing and modelling studies.

TIME	PRESENTATION
11:00	Introduction
11:15	The impacts of the 2015/2016 El Niño on ecosystem growth and respiration across the tropics [ID:1030] Yadvinder Malhi, Cécile Girardin, Sam Moore, Terhi Riutta, Erika Berenguer, Daniela Requena Suarez, Alejandro Araujo Murakami, Lucy Rowland, Patrick Meir & Antonio Lola Carlos da Costa
11:30	Environmental heterogeneity drives effects of drought on tropical seedling survival [ID:1029] Maria Uriarte & Jess Zimmerman
11:45	The Effect of the 2015/16 El Niño on Hydraulic Characteristics of Central Amazonian Trees [ID:1031] Clarissa Fontes, Kolby Jardine, Todd Dawson, Bruno Gimenez, Niro Higuchi, Alessandro Araújo & Jeffrey Chambers
12:00	El Niño, Drones and Cocoa Farmers: How mixed methods can help us understand resilience [ID:1032] Christine Moore, Yadvinder Malhi & Mark Hiron
12:15	El Niño drought impacts on Ghanaian cocoa livelihoods [ID:1033] Victoria Maguire-Rajpaul, Mark Hiron, Constance McDermott & Yadvinder Malhi
12:30	Strong stomatal control of canopy trees in central Amazon during the 2015 El Niño drought [ID:1034] Maquella Garcia, Rafael Oliveira, Tomas Domingues, Victor Alexandre Santos & José Francisco Gonçalves
12:45	Conclusions

KABAH [Venue: HI]**Origins and consequences of genetic and functional variation in tropical oaks under global change****Organizers:** Jeannine Cavender-Bares & Antonio González-Rodríguez

The symposium focuses on the consequences of phylogenetic, functional and genetic variation within the oak genus (*Quercus*), whose center of diversity is in Mesoamerica.

TIME	PRESENTATION
11:00	Introduction
11:15	Phylogenetic diversity of the American oaks [ID:1080] Andrew Hipp, Paul Manos, Jeannine Cavender-Bares, Hernando Rodríguez-Correa, Antonio Gonzalez-Rodríguez & Susana Valencia
11:30	Lack of negative density dependence in a Costa Rican endemic Oak [ID:1079] Eric J. Fuchs, Irene Calderón, Luis Diego Ríos & Gilbert Barrantes
11:45	Comparative landscape genomics of <i>Quercus rugosa</i> (Mexico) and <i>Q. lobata</i> (California) [ID:1078] Paul Gugger, Karina Martins, Jesus Llanderal Mendoza, Antonio González Rodríguez, Sorel Fitz-Gibbon, Ana Albarrán Lara, Jessica Wright & Victoria Sork
12:00	Adaptive differentiation in water use of a tropical oak: implications for global change [ID:1076] Jeannine Cavender-Bares, Jose Ramirez-Valiente, Alyson Center, Jed Sparks, Kimberlee Sparks, Julie Etterson, George Pilz & Nicholas Deacon
12:15	Oaks (<i>Quercus</i>: Fagaceae) diversity and Mexican protected areas: implications for conservation [ID:1081] Hernando Rodríguez-Correa, Antonio González-Rodríguez, Ken Oyama, Andrew L. Hipp, Jeannine Cavender-Bares, Audrey Denvir, Nicole Cavender, Murphy Westwood
12:30	Ecosystem consequences of species coexistence in highly diverse oak communities [ID:1077] Antonio González-Rodríguez, Felipe García-Oliva, Yunuen Tapia-Torres, Alberto Morón-Cruz, Brenda Baca-Patiño, Nguyen Esmeralda López-Lozano, Jesus Llanderal-Mendoza & Pablo Cuevas-Reyes
12:45	Conclusions

MAYA [Venue: HI]

Socio-Ecological dimensions of changing fire regimes for tropical biodiversity conservation

Organizers: Imma Oliveras & Erika Berenguer

Forest fire regimes are changing across the globe, with important social and ecological consequences for tropical biodiversity and ecosystem functioning conservation. With this symposium we aim to bring highlight the state of art of such a pressing issue and relevant topic in the biodiversity conservation agenda.

TIME	PRESENTATION
11:00	Introduction
11:15	Rate of spread, intensity, and heat stress decrease as tropical savanna fire approaches forest edge [ID:1082] Anabelle W. Cardoso, Yadvinder Malhi, Imma Oliveras, William Bond & Katharine Abernethy
11:30	Environmental changes and the pyroecography of the Amazon [ID:1083] Luiz Aragao, Liana Anderson, Marisa Fonseca, Thais Rosan, Laura Vedovato, Fabien Wagner, Camila Silva, Egidio Arai, Jos Barlow & Erika Berenguer
11:45	Impacts of the 2015-16 El Niño mediated fires on Amazonian biodiversity and ecological functioning [ID:1086] Filipe França, Erika Berenguer, Alex Leeds, Nargila Moura, Lais Ferreira Maia, Fernando Zagury Vaz-De-Mello, Rodrigo Fadini, Liana Chesini Rossi, Marina Seixas, Amanda Cardoso, Victor Hugo Fonseca Oliveira, Rodrigo Braga, Julio Louzada, Joice Ferreira, Toby Gardner & Jos Barlow
12:00	Post-fire resprouting and bud protection strategies in Brazilian Neotropical Savanna woody plants [ID:1084] Marina Scalon, Imma Oliveras, Beatriz Marimon
12:15	El Niño impacts on plant community and biomass in human-modified Amazonian forests [ID:1085] Erika Berenguer, Filipe França, Marina Seixas, Liana Rossi, Amanda Cardoso, Joice Ferreira, Toby Gardner, Yadvinder Malhi & Jos Barlow
12:30	Predictors of performance: fire-free interventions in Indonesia's fire-prone peatlands [ID:1087] Rachel Carmenta, Jacob Phelps, Aiora Zabala, Bambang Trihadmojo
12:45	Conclusions

ORAL SESSIONS

MONDAY July 10th, 2017

YUCATÁN 1 [Venue: FA]

Biotic interactions in tropical ecosystems I

TIME	PRESENTATION
14:30	Coastal plant-symbiont communities respond to petroleum pollution of the past, present and future [ID:110] Sunshine Van Bael, Demetra Kandalepas, Candice Lumibao & Stephen Formel
14:45	Tropical seed dispersal networks: emerging patterns, biases and keystone species [ID:137] Anna Traveset, Gema Escribano-Avila, Carlos Lara-Romero & Ruben Heleno
15:00	Seed-associated fungi in neotropical pioneers influence seed persistence, germination, and survival [ID:355] Paul-Camilo Zalamea, Carolina Sarmiento, Adam S. Davis, A. Elizabeth Arnold & James W. Dalling
15:15	Floral specialization: an important reproductive isolation mechanism among sympatric <i>Achimenes</i> [ID:361] Erandi Ramírez-Aguirre, Silvana Martén-Rodríguez & Mauricio R. Quesada
15:30	Discovering to the true pollinators, pollination networks and evolution of floral traits in <i>Ipomoea</i> [ID:441] Martín Hesajim De Santiago Hernández, Silvana Martén Rodríguez, Martha Lopezaraiza, Francisco Parraquirre, Estrella Páramo Ortiz, Gumersindo Sanchez Montoya, Ken Oyama & Mauricio Quesada
15:45	Plant-pollinator interactions and floral biology of three mesoamerican alpine endemic species [ID:522] Silvana Marten-Rodriguez, Libertad Arredondo-Amezcuca & Martha Lopezaraiza-Mikel

YUCATÁN 3 [Venue: FA]

Seedling and sapling ecology

TIME	PRESENTATION
14:30	Combined effects of seed and soil quality drive seedling performance in a tropical fragmented forest [ID:70] Jenny Zambrano, Henry Howe & Miquel Gonzalez-Meler
14:45	Demographic drivers of local seedling distributions: growth and mortality responses to soil moisture [ID:134] Stefan J. Kupers, Bettina M.J. Engelbrecht, S. Joseph Wright, Christian Wirth & Nadja Rüger
15:00	Effects of nutrient addition on tree seedling dynamics in montane forests of southern Ecuador [ID:371] Daisy Cárata Tandalla & Jürgen Homeier
15:15	Effects of the 2015-2016 El Niño on seedling dynamics across a rainfall gradient in central Panama [ID:481] Liza Comita, Bettina Engelbrecht, Lars Markesteijn, Eric Manzane, S. Joseph Wright & F. Andrew Jones
15:30	Seedling fate across an elevation gradient: results from a reciprocal transplant in the Andes [ID:612] Rachel Hillyer, Philippa Stone, Jhonatan Sallo Bravo, Adan Julian Ccahuana Quispe, Patrick Meir, Kenneth Feeley & Miles Silman
15:45	Tropical sapling leaf trait and leaf productivity responses to fertilization and light [ID:395] Cleo Chou, Lars Hedin, Zoe Sims & Stephen Pacala

YUCATÁN 4 [Venue: FA]

Ecology, genetics, and evolution of tropical systems I

TIME	PRESENTATION
14:30	Phylogenetic position of the disjunct species <i>Musa ornata</i> (Musaceae): understand its distribution [ID:10] Mireya Burgos-Hernández, Dolores González & Gonzalo Castillo-Campos,
14:45	Taxonomic, functional, and phylogenetic thresholds are modulated by matrix composition [ID:276] Andrea Larissa Boesing, Elizabeth Nichols & Jean Paul Metzger
15:00	Thermal niche conservatism as driver of tree community composition in tropical mountain forests [ID:73] Sebastian Ramírez Echeverry, Sebastián Gonzalez, Juan Phillips, Ederesson Cabrera, Kenneth Feeley & Álvaro Duque
15:15	Impacts of forest modification on the phylogenetic structure of spider communities in Borneo [ID:462] Sarah Maunsell, Jeremy Miller, Tom Fayle, Kalsum Yusah & Roger Kitching
15:30	Dominant trees in the Neotropics: Are they single plant lineages? [ID:460] Gabriel Damasco, Clarissa Fontes, Ricardo Haidar & Renata Françoso
15:45	Distribution and genetic structure of the dry tropical forest tree <i>Quercus oleoides</i> in Costa Rica. [ID:114] Oscar Rocha, Cristina Chinchilla-Soto, Jorge Leiva, Manuel Rocha & Marco Gutierrez-Soto

CELESTÚN [Venue: FA]

Soil ecology in tropical systems

TIME	PRESENTATION
14:30	Shifts in forest functioning in response to soils explain spatial variation in CUE across the Amazon [ID:68] Sophie Flack, Mathew Williams, Patrick Meir & Yadvinder Malhi
14:45	Effects of nutrient input on the decomposer community in tropical montane rainforests in Ecuador [ID:93] Franca Marian, Dorothee Sandmann, Kristina Richter, Christian Bluhm, Jürgen Homeier, Mark Maraun & Stefan Scheu
15:00	Root trait response to fertilization and interspecific interactions in an agroforest [ID:92] Kira Borden, Marney Isaac
15:15	Tropical forest age influences the response of soil respiration to experimental root exudate inputs [ID:360] Emma Sayer, Laetitia Brechet, Luis Lopez-Sangil & Biancolini Castro
15:30	Tropical dry forests exhibit increasing disturbance pressure with decreasing soil moisture [ID:527] Ravi Chaturvedi, Akhilesh Raghubanshi, Kyle Tomlinson & Jamuna Singh
15:45	Soil-mediated filtering organizes tree assemblages in regenerating tropical forests [ID:31] Bruno Pinho, Felipe Melo, Victor Arroyo-Rodriguez, Simon Pierce, Madelon Lohbeck & Marcelo Tabarelli

UXMAL [Venue: HI]

Human influences on tropical ecosystems and landscapes

TIME	PRESENTATION
14:30	Conservation and cattle production: improving the matrix through silvopasture [ID:97] Lillian Kline, John Andreoni, Alexander Truelove, Astrid Santiago, Wyatt Klipa & Kimberly Williams-Guillén
14:45	Indigenous knowledge and spatial pattern of recruitment of <i>Synsepalum dulcificum</i> in Africa [ID:291] Isidore Gnonlonfoun & Moussougan Alphonse Ezin
15:00	Climate change & Bolivian Amazonian indigenous communities: adaptation & biocultural keystone species [ID:262] Claudia Comberti
15:15	The restoration potential of indigenous agroecosystems for biocultural resilience in Hawaii [ID:493] Natalie Kurashima & Tamara Ticktin
15:30	Gradients of diversity of tree species in agricultural landscapes of a neotropical region [ID:623] Aline Pingaroni & Miguel Martínez-Ramos

TULUM [Venue: HI]

Structure, function, and diversity of tropical ecosystems

TIME	PRESENTATION
14:30	Forest biomass, productivity and carbon cycling along a rainfall gradient in West Africa. [ID:121] Sam Moore, Stephen Adu-Bredu, Akwasi Duah-Gyamfi, Shalom Addo-Danso, Forzia Ibrahim, Arnel Mbou, Agnès De Grandcourt, Riccardo Valentini, Giacomo Nicolini, Gloria Djagbletey, Kennedy Owusu-Afriyie, Agne Gvozdevaite, Imma Oliveras, Maria C. Ruiz-Jaen, Lee White, Kathryn Jeffrey, Fidèle Ondo, Josué Ndong, Leandre Amoni, Carl-Stecy Ditougou & Yadvinder Malhi
14:45	Litter manipulation induces delayed long-term changes in litter production [ID:541] Sara Fern Leitman & Edmund Tanner
15:00	Variation of beta diversity across an elevational gradient in the tropical Andes [ID:340] Johanna Andrea Martínez Villa & Álvaro Javier Duque Montoya
15:15	Climatic harshness and land-cover drive diversity and structure of Colombian tropical dry forests [ID:476] Roy González-M., Juan M. Posada, Beatriz Salgado-Negret, Camila Pizano & Natalia Norden
15:30	Precipitation partition in an avocado (<i>Persea americana</i> var. <i>Mendez</i>) orchard in central Mexico [ID:412] Rafael Morales Chávez, Alberto Gómez-Tagle Chávez, Yonhatan García González & Alberto Francisco Gómez-Tagle Rojas
15:45	Overcoming barriers to the sustainable use of native orchids in the Colombian Andes [ID:597] Carolina Castellanos-Castro, Martha Vallejo Joyas, María Carolina Rozo Mora, Diana López Diago & Néstor García Castro

KABAH [Venue: HI]

Plant-soil-fungi interactions

TIME	PRESENTATION
14:30	Soil fungal communities driven by nitrate across secondary forests in Costa Rica [ID:122] Katie McGee, Bill Eaton, Shadi Shokralla & Mehرداد Hajibabaei
14:45	Effect of coffee management regime on guilds of belowground fungi [ID:445] Elizabeth Sternhagen & Laura Aldrich-Wolfe
15:00	Mycorrhizal type mediates effects of nitrogen addition on the productivity of montane forest [ID:216] James Dalling, Katherine Heineman, Adriana Corrales, Cecilia Prada & Benjamin Turner
15:15	Seedling ectomycorrhization of the Neotropical monodominant <i>Dicymbe corymbosa</i> (Fabaceae) [ID:345] Carolyn Delevich, Bryn Dentinger, M. Catherine Aime & Terry Henkel
15:30	Living life up high: How fungi differ between canopy and terrestrial soils [ID:207] Caitlin I. Looby, Emily C. Heyne & Kathleen K. Treseder
15:45	Soil microbial nutrient limitations in tropical forests: a meta-analysis [ID:140] Tessa Camenzind, Stephan Hättenschwiler, Kathleen Treseder, Anika Lehmann & Matthias Rillig

MAYA [Venue: HI]

Biodiversity inventories in tropical ecosystems I

TIME	PRESENTATION
14:30	A small-scale lichen inventory yields high biodiversity during an OTS course at La Selva, Costa Rica [ID:23] Klara Schamagl
14:45	Organizing large-scale biodiversity inventories in the tropics: lessons from IBISCA projects [ID:167] Maurice Laponce, Olivier Pascal, Vojtěch Novotný & Yves Basset
15:00	Arboreal camera traps as an emerging methodology for inventorying elusive rainforest mammals [ID:283] Ruthmery Pillco Huaracaya, Andrew Whitworth, Laura Dominie Braunholtz, Ross Macleod & Christopher Beirne
15:15	A basin-wide Landsat mosaic and field inventories reveal compositional patterns across Amazonia [ID:362] Hanna Tuomisto, Jasper Van doninck, Gabriel Moulattlet, Glenda Cárdenas, Gabriela Zuquim & Kalle Ruokolainen
15:30	Phytosociological floristic inventory in the Brazilian Cerrado [ID:535] Ilvan Lustosa Junior, Ricardo Oliveira Gaspar, Jéssica Ferreira, Jonas Inkotte, Juliana Araújo, Máisa Rodrigues, Fabiana Ribeiro, Ângela Bussinguer, Marco Valadão & Karla Valadão
15:45	Large-scale Evaluation of Multimedia Analysis Techniques for Biodiversity inventories [ID:583] Hervé Goeau, Alexis Joly, Christophe Botella, Pierre Bonnet, Hervé Glotin, Willem-Pier Vellinga, Concetto Spampinato, Simone Palazzo & Henning Müller

POSTERS

MONDAY July 10th, 2017

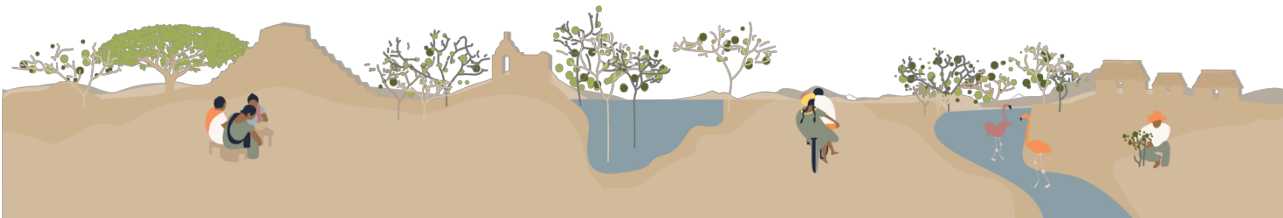
POSTER BOARD	PRESENTATION
1	Evaluating multiple spatial scales to understand the distribution of anuran beta diversity [ID:16] Fernando da Silva, Lara Melchior & Denise Rossa-Feres
2	Structure of herpetofaunal communities in eastern Madagascar [ID:85] Nasandratra Nancia Raoelinjanakolona & Achille Raselimanana
3	Ensemble of the bat acoustic reference library SONOZOTZ-AMMAC [ID:236] María Cristina Mac Swiney Gonzalez, Veronica Zamora-Gutierrez & Miguel Ángel Briones-Salas
4	Population density estimates of forest duikers differ greatly between survey methods, Cameroon [ID:408] Towa Olivier William Kamgaing, Kadiri Serge Bobo, Daniel Djekda, Keumbeng Blondel Vasco Azobou, Bobo René Hamadjida, Moaga Yannick Balangounde, Kamdem Joel Simo & Hirokazu Yasuoka
5	Floristic composition and regeneration in a fragment of the montane seasonal semideciduous forest [ID:431] Maisa Isabela Rodrigues, Ricardo de Oliveira Gaspar, Ilvan Medeiros Lustosa Junior, Jéssica Cristina Barbosa Ferreira, Fabiana Campos Ribeiro, Angela Pereira Bussinguer, Marco Bruno Xavier Valadão, Karla Monique Silva Carneiro Valadão, Renan Augusto Miranda Matias & Juliana Baldan Costa Neves Araújo
6	Structure of the floral nectaries in two Clusiaceae from the Atlantic rainforest [ID:442] Bárbara Sá-Haiad, Daniel Leal & Silvia Machado
7	Assigning fine-scale floristic units to seasonally dry tropical forests in Central Brazil [ID:471] Ricardo Haidar, Gabriel Damasco, Washington Oliveira, Aldicir Scariot, Jose Roberto Pinto & Renata Françoso
8	Tree diversity and their floristic affinities of the subbasin Cuixtla, Jalisco-Zacatecas, Mexico [ID:616] Claudia Janeth Ramírez-Díaz & Pablo Carrillo-Reyes
9	Harvest pressure shadows link human population density with hunting-driven extinction [ID:161] Charlotte Chang, Matthew Burgess & Simon Levin
10	Ecological, economic and social evaluation of mexican oregano [ID:575] Irina Llamas-Torres, Luz María Calvo-Irabien, Javier Bello-Pineda, Teresa Castillo-Burquete & Eurídice Leyequien-Abarca
11	Enemy-mediated indirect interactions in tropical forest tree communities. [ID:13] Harriet Downey, Yuriani Cozzarelli, Diana C. Fernandez, Owen Lewis, Mike Bonsall & Sofia Gripenberg
12	Distribution and abundance of planktonic gastropods in Pacific waters off Colombia, September 2005 [ID:25] Raúl Hernando López Peralta & Ángela María Baldrich Chaparro
13	Effects of galls on morpho-physiological traits in fruits of <i>Parkinsonia praecox</i> in an arid region [ID:41] Ximena Contreras-Varela, Eliezer Cocoltzi, Juan García-Chávez, Geraldo W. Fernandes & Armando Aguirre
14	Morphology and histology of extrafloral nectaries induced by galls on <i>Croton antisiphiliticus</i> [ID:109] Ximena Contreras Varela, Armando Aguirre, Eliezer Cocoltzi, Lazaro Araujo, Bárbara Nunes & Geraldo W. Fernandes
15	Chaetognatha found in Colombian Pacific waters during September 2004 and relation to some variables [ID:50] Raúl Hernando López Peralta
16	Evidence of seed consumption by fishes and their potential role as dispersers in the Amacuzac River [ID:76] Vanessa Montes de Oca, Elisabet V. Wehncke & Norman mercado
17	Ant-seed networks: Can harvesting ant benefit a seed? [ID:78] Diego Anjos, Wesley Dáttilo & Kleber Del-Claro
18	Plant-herbivore interaction networks in human-modified tropical landscapes [ID:80] Brenda Ramírez García, Ek del Val de Gortari & Miguel Martínez-Ramos
19	Interactions of <i>Heliconia aurantiaca</i> with its floral visitors in a fragmented tropical landscape [ID:81] Marilyn Castillo Munoz & Julieta Benitez-Malvido
20	Trophic interactions of flies in Aroid infrutescences in a Mexican tropical rain forest [ID:101] Guadalupe Amancio Rosas, Vicente Hernández-Ortiz & Armando Aguirre
21	Dung beetle activity affects the establishment of seedlings from the seed bank [ID:104] Lina Adonay Urrea Galeano, Ellen Andresen, Rosamond Coates, Francisco Mora & Guillermo Ibarra-Manríquez
22	Host-parasite interaction and impact of mite infection on mosquito population [ID:43]

23	Patterns of change in body condition in Neotropical migratory birds in shaded systems in the Andes [ID:125] Gabriel J. Colorado Z. & Amanda D. Rodewald
24	Exotic plants as key resources for frugivorous birds in anthropized environments [ID:130] Juan Fernando Acevedo-Quintero & Sergio Andres Montoya-Arango
25	Species identity influences secondary removal of seeds of neotropical pioneer tree species [ID:158] Selina A. Ruzi, Daniel P. Roche, Paul-Camilo Zalamea, Abigail C. Robison & James W. Dalling
26	Relationship between plant population structure and seed dispersal mode in a heterogeneous landscape [ID:199] Flavia Santana, Marie-Josée Fortin & Flavia Costa
27	Impacts of defaunation on invertebrate communities and ecosystem processes in an afro-tropical forest [ID:206] J. therese Lamperty, Kai Zhu, John Poulsen & Amy Dunham
28	Facilitative interactions among cultivated papaya and surrounding flora via shared pollinators [ID:218] Raúl Badillo Montaño, Miguel Ángel Munquía Rosas & Armando Aguirre Jaimes
29	Endosymbiont plasticity in <i>Jatropha curcas</i> [ID:230] Kimberly Mighell, Kristin Saltonstall, Jaime Espinosa & Sunshine A. Van Bael
30	Belowground interaction on aboveground tri-trophic interactions depend on cross type in <i>R. nudiflora</i> [ID:233] Blanca Mejía Alva, José Alberto Ramos Zapata, Luis Abdala Roberts & Víctor Parra Tabla
31	Occupancy models for determining habitat use in specialist and generalist Neotropical bird species [ID:234] Roberto Gabriel Berlio López, José Roberto Sosa López & John Newhall Williams
32	α-Diversity and effectiveness frugivores in a population of the <i>Pilosocereus leucocephalus</i> [ID:235] Shamira Vázquez-Castillo, José Antonio Miranda-Jácome & Ernesto Ruelas Inzunza
33	The effects of fragmentation on insect herbivory rates in tropical rainforest [ID:247] Lois Kinneen, Tom Fayle, Sarah Maunsell, Nigel Stork, Charles Vairappan & Roger Kitching
34	How do dung beetles influence the fate of seeds in the Amazon forest? [ID:251] Raquel Carvalho, Rodrigo Fagundes Braga, Ellen Andresen, Diego Vinicius Anjos Silva, Estevao Alves Silva, Toby Gardner, Ronald Zanetti & Julio Louzada
35	Effect of moisture and biotic interactions on seedling recruitment and diversity in tropical forests [ID:258] Edwin Lebrija-Trejos, Joseph Wright, Helene C Muller-Landau & Andrés Hernández
36	Can plant-pollinator network metrics indicate environmental quality? [ID:261] Danilo Boscolo, Raimunda Gomes Silva Soares, Patricia Alves Ferreira & Luciano Eclincor Lopes
37	Patterns of ornithocorous-fruit nutritional content in a periurban park [ID:268] Issaac Azrael Teodosio Faustino, Gabriela Irais Salazar Rivera, Andrea Birke Biewendt, Gustavo Contreras Cuevas, Gonzalo Castillo Campos & Ernesto Ruelas Inzunza
38	Hidden treasures - the application of bomb-radiocarbon analysis in insect collections [ID:285] Norbert Kunert & Alida Mercado Cardenas
39	Effects of plant resources on frugivores and seed dispersal functions using diversity measures [ID:303] Marta Quitián, Vinicio Santillán, Carlos Iván Espinosa, Jürgen Homeier, Katrin Böhning-Gaese, Matthias Schleuning & Eike Lena Neuschulz
40	Oppositely skewed sex ratios in host and symbiont of an African insect-rodent mutualism [ID:313] Norbert J. Cordeiro
41	Interactive effects of increasing aridity and anthropogenic disturbance on seed dispersal by ants [ID:320] Fernanda Maria Pereira Oliveira, Alan Andersen, Xavier Aman, José Domingos Ribeiro Neto & Inara Roberta Leal
42	Florivory in tropical species: Comparison of floral damage and insect richness in related species [ID:333] Tatiana Cornelissen, Maria Gabriela Boaventura, Cassio Pereira, Nathalia Henriques, Elio Brasil & Thais Pignataro
43	Is selfing ability associated with geographic range size and niche breadth in <i>Ipomoea</i>? [ID:334] Silvana Martén-Rodríguez, Guillermo Huerta-Ramos & Mauricio Quesada
44	Ant-plant symbiont: how tree and colony structure interact and give rise to emergent behavior [ID:346] Peter Marting
45	Assymetry in pollen flow: A case study between a distylous plant and bees in Brazilian Cerrado [ID:347] Marco Túlio Furtado, Rocio Perez-Barrales, Raphael Matias & Hélder Consolaro
46	Toxins or Medicines? Algal diets mediate parasitism in a freshwater host-parasite system [ID:359] Kristel Sanchez, Meghan Duffy & Mark Hunter

47	Mutualistic bees may avoid the impact of pollen thieves by visiting flowers earlier in the morning [ID:376] Elza Guimarães, Marília Quinalha, Anselmo Nogueira & Camila Souza
48	Florivory and pollination in an ornithophilous species[ID:382] Priscila Tunes & Elza Guimarães
49	Measuring pollinator movement via multipaternal pollen in fragmented tropical forests [ID:388] Megan O'Connell, Antonio Castilla, Leticia Lee & Shalene Jha
50	Diversity of acorn-predating weevils and their effects in seed survival in two tropical oaks [ID:398] Consuelo Bonfil Sanders, Victor Taracena, Raúl Bonal & Josep M. Espelta
51	Functional traits, chemical defenses and their distribution across habitats in <i>Protium</i> (Burseraceae) [ID:446] Jason Vlemingck, Diego Salazar, Italo Mesones, Nallarett Davila, Christopher Baraloto, John Lokvam & Paul V.A. Fine
52	Host-parasite interaction networks across a deforestation gradient [ID:459] Elizabeth Flores, Jean Paul Metzger & Liz Nichols
53	Mammal-dung beetle interaction networks across a deforestation gradient [ID:464] Guillermo Baretto Corona, Renata Pardini, Jean Paul Metzger & Liz Nichols
54	A twig-nesting ant transplant experiment: habitat and ant impacts on colony survival and composition [ID:483] Stacy Philpott
55	Salt marsh provides conditions for mutualism between <i>Melongena corona</i> and <i>Batophora</i> Algae [ID:484] Nina Dropcho
56	Molecular methods enhances traditional approaches to understand a bird-plant frugivory network [ID:502] Gabriela Salazar-Rivera, Gonzalo Castillo-Campos, Wesley Dáttilo, Issaac Teodosio, Gustavo Contreras-Cuevas, Norma Flores-Estévez & Ernesto Ruelas
57	DNA metabarcoding identified high diversity of pollen in the diet honey bees in tropical forests [ID:515] Francisco Javier Balvino Olvera, Mauricio Quesada Avendaño, Antonio González Rodríguez, Jorge Lobo Segura, Violeta Patiño Conde, Ulises Olivares Pinto, María de Jesús Aguilar Aguilar, Gloria Ruíz Guzman & Gumersindo Sánchez Montoya
58	Impact of decadal persistence of pioneer tropical seeds on seed-associated fungal communities [ID:521] Carolina Sarmiento, Paul-Camilo Zalamea, Venus Kuo, Carolyn Delevich, Adam S. Davis, Thomas A. Brown, A. Elizabeth Arnold & James W. Dalling
59	Mycorrhizal fungi associated with <i>Swietenia macrophylla</i> in conservation area of Quintana Roo [ID:531] Guadalupe Sánchez-Reyes, Iván Oros-Ortega, Luis Alberto Lara-Pérez, Fernando Casanova-Lugo, Víctor Francisco Díaz-Echeverría, Luis Alfonso Saénz-Carbonell & Ismael Pat-Aké
60	Extrafloral nectaries-bearing plants as a driving force behind spatial ant nesting patterns [ID:534] Inara Roberta Leal, Xavier Arnan Viadiu, Alan Neil Andersen, Carlos Henrique Félix da Silva
61	Natural regeneration of the Tropical Dry Forest in actively managed firebreaks. [ID:564] Gabriela Quesada-Ávila, Andrés Rodríguez, Francisco Guerra-Martínez
62	Human disturbance and rainfall effects on the temporal stability of ant-EFN bearing plant networks [ID:584] Fernanda Maria Pereira Oliveira, Talita Câmara, Xavier Arnan, Nico Blüthgen & Inara Roberta Leal
63	Environmental stress determines termites nest cohabitation in a tropical mountain [ID:594] Arleu Viana-Junior, Paola Mitraud, Bianca Valle, Ciro Araujo & Frederico Neves
64	Food availability influences population dynamics of rodents in a neotropical savanna grassland [ID:601] Ingrid de Mattos, Clarisse Rezende Rocha & Jader Marinho-Filho
65	Flying dead [ID:607] Gloria Ruiz Guzman, Oliverio Delgado Carrillo, Francisco Balvino Olvera, María Aguilar Aguilar, Violeta Patiño Conde & Mauricio Quesada Avendaño
66	Vegetative connectivity and ant communities: a review [ID:625] Catherine Ann MacDougal
67	Diurnal variation in dung beetle community dynamics: is competition a driving force? [ID:170] G Asha, K Manoj, P. P. Megha & Palatty Alllesh Sinu

Tuesday

July 11th, 2017



TIME		SITE	TUESDAY July 11th, 2017	
8:00-9:00	Welcome desk (FA)	REGISTRATION		
9:00-10:30	Yucatán 1 & Yucatán 2 (FA)	[PS] Panel discussion The future Beyond Paradise: Frontiers in tropical ecology, conservation and society in the Anthropocene Rodolfo Dirzo, Sandy Anelman, José Sarukhán & Lucia Lohmann		
10:30-11:00	Corridors of FA & HI	COFFEE BREAK		
11:00-13:00	Yucatán 1 (FA)	[SYMP] Multiple-use forests: can forest conservation and socio-economic development be combined?		
	Yucatán 2 (FA)	[SYMP] Using functional diversity to understand community and ecosystem processes in tropical dry forests		
	Yucatán 3 (FA)	[SYMP] Insect-Plant interactions: patterns and processes in a changing world		
	Yucatán 4 (FA)	[SYMP] The impacts of agrarian change on local communities: sharing experience from the field		
	Mérida (FA)	[SYMP] Tropical Pollination Services in the Anthropocene		
	Celestún (FA)	[SYMP] Primate conservation in human-disturbed habitats		
	Uxmal (HI)	[SYMP] Biogeography, ecology and sustainability in Caatinga: the largest dry forest in South America		
	Tulum (HI)	[SYMP] Participatory modeling and games to engage people in science based conservation ecology and planning		
	Kabah (HI)	[SYMP] Modeling Tropical Forest Dynamics and Element Cycles in an Era of Global Change		
	Maya (HI)	[SYMP] Working with others for carnivore conservation: interdisciplinary, participatory and action research		
13:00-14:30	Restaurants of FA & HI	LUNCH		
	San Jacinto (HI)	[SE] Soft-skills workshop- Presentation skills*		
14:30-16:00	Yucatán 1 (FA)	[SYMP] Multiple-use forests: can forest conservation and socio-economic development be combined?		
	Yucatán 2 (FA)	[SYMP] Using functional diversity to understand community and ecosystem processes in tropical dry forests		
	Yucatán 3 (FA)	[OS] Functional aspects of tropical ecosystems		
	Yucatán 4 (FA)	[OS] Ecology, genetics, and evolution of tropical systems II		
	Mérida (FA)	[OS] Biotic interactions in tropical ecosystems II		
	Celestún (FA)	[OS] Seed and seedling ecology		
	Uxmal (HI)	[SYMP] Biogeography, ecology and sustainability in Caatinga: the largest dry forest in South America		
	Tulum (HI)	[OS] Tropical biodiversity and conservation in human modified landscapes		
	Kabah (HI)	[OS] Restoration of degraded tropical ecosystems		
	Maya (HI)	[OS] Invasive species		
	CIS (FA)	[SE] Exploring Collaboration Between Africa and Latin America for Ecology and Conservation Biology		
	San Juan (HI)	[SE] Neotropical Bamboo Research working group		
16:00-17:00	Corridors of Holiday Inn	COFFEE BREAK & POSTERS		
	Uxmal (HI)	Audiovisual session		
	Tulum (HI)	Audiovisual session		
	Kabah (HI)	[SC] Scientific café		
	CIS (FA)	[SE] Exploring Collaboration Between Africa and Latin America for Ecology and Conservation Biology (continuation)		
	San Juan (HI)	[SE] Neotropical Bamboo Research working group (continuation)		
17:10-18:10	Yucatán 1 &	[PS] Keynote lecture The skin of our coasts: Mangrove services in a rapidly changing environment Ezequiel Ezcurra		
18:10 - 19:10	Yucatán 2 (FA)	[PS] Town Hall Meeting		

(FA): Fiesta Americana Hotel (HI): Holiday Inn Hotel

[PS]: Plenary session

[SYMP]: Symposium

[OS]: Oral session

[SE]: Side event

[SC]: Scientific Café

*The lunch will be served in these sessions

SYMPOSIA

TUESDAY July 11th, 2017

YUCATÁN 1 [Venue: FA]

Multiple-use forests: can forest conservation and socio-economic development be combined?

Organizers: Fidel Chiriboga Arroyo, Merel Jansen & Carolina Levis

In many cases economic development is believed to go hand-in-hand with deforestation. However, within the right socio-institutional and economic framework, a combination of different sustainable forest uses could provide models that combine forest conservation with socio-economic development. This symposium discusses the potential of such proposed models.

TIME	PRESENTATION
11:00	Introduction
11:15	Valuing and protecting multiple use forests in Brazil and Cameroon [ID:1202] Patricia Shanley, Sarah Laird, Murilo Serra Da Silva & Elias Ndive
11:30	Conservation and livelihood impacts of subnational REDD+ initiatives in the Brazilian Amazon [ID:1203] Amy Duchelle, Jan Börner, Sven Wunder, Astrid Bos, Marina Cromberg & Gabriela Simonet
11:45	Local orchid trade and conservation in Mexico's forests: are they compatible? [ID:1192] Tamara Ticktin, Demetria Mondragón, Leonel Lopez-Toledo, Daniela Dutra Elliot & Mariana Hernández-Apolinar
12:00	An Amazonian scientific network to support sustainable forest use and conservation by smallholders [ID:1195] Lucia Wadt & Karen Kainer
12:15	Are Brazil nut populations threatened by fruit harvest? [ID:1196] Karen Kainer, Todd Bertwell, Wendell Cropper, Christina Staudhammer & Lucia Wadt
12:30	Role of Amazon nut and timber on the viability of multiple-use forest management in Bolivia [ID:1201] Marlene Soriano, Marielos Peña-Claros, Nataly Ascarrunz & Frits Mohren
12:45	Collective titling in Peru: challenges and opportunities to secure tenure in the Amazon [ID:1198] Julia Quaedvlieg, Iliana Monterroso, Anne Larson, Frangi Valencia, Joe Saldeña & Zoila Cruz
13:00	LUNCH
14:30	Conservation livelihood options? Agroforestry and silvopastoral tipping points in a MAB reserve [ID:1197] Luis Garcia-Barrios, Marco Brassch, Juana Cruz-Morales, Amayrani Meza-Jimenez, erika Speelman, Vivian Valencia, Yanus Dechnik & Aiora Zabala
14:45	Historical management practices and the conservation of domesticated Amazonian forests [ID:1194] Carolina Levis, Bernardo Monteiro Flores, Priscila Ambrósio Moreira, Bruno Garcia Luize, Juliana Lins, Juliano Franco-Moraes, Rubana Palhares Alves, Evelien Konings & Charles Roland Clement
15:00	The importance of consumers of Amazon-nuts for tropical forest conservation [ID:1200] Merel Jansen, Fidel Chiriboga, Manuel Guariguata & Chris Kettle
15:15	Exploring genetic effects of forest degradation on Brazil nut mating systems [ID:1199] Fidel Chiriboga, Merel Jansen, Manuel Guariguata & Chris Kettle
15:35	Conclusions

YUCATÁN 2 [Venue: FA]**Using functional diversity to understand community and ecosystem processes in tropical dry forests****Organizers:** Beatriz Salgado-Negret, Horacio Paz & Camila Pizano

Discussion on the advances and challenges of understanding how tropical dry forest functional diversity varies across environmental gradients at different spatial scales, from individual organisms to communities and ecosystem processes, and from the interaction between plants and other organisms (soil organisms, herbivores, etc.).

TIME	PRESENTATION
11:00	Introduction
11:15	Long-term changes in forest structure and trait composition in a tropical dry forest [ID:1058] Sandra M. Duran, Nathan G. Swenson, Catherine Hulshof, Carolyn A.F. Enquist & Brian J. Enquist
11:30	Local and landscape-scale assembly patterns of small and large trees in tropical dry forests [ID:1050] Lucía Sanaphre-Villanueva, Juan Manuel Dupuy, José Luis Andrade, Casandra Reyes-García, Paula C. Jackson & Horacio Paz
11:45	How does soil phosphorus affect plant traits and soil function within and among dry forests? [ID:1051] Jennifer Powers, David Medvigy, Justin Becknell, Juan Dupuy, Maria Gabriela Gei, Catherine Hulshof, Camila Pizano, Beatriz Salgado-Negret, Annette Trierweiler, Bonnie Waring & Skip Van Bloem
12:00	Functional regeneration during succession in a tropical dry forest: from microorganisms to mammals [ID:1049] Mário Marcos Do Espírito Santo, Luiz Falcú, Ronaldo Reis Junior, Frederico Neves, henrique valério, Lemuel Leite, Magno Borges, Marina Beirú, Ricardo Barbara, Yule Nunes, Geraldo Wilson Fernandes, Alex Chavier Silva, Luciana Figueiredo Silva, Paulo Ricardo Siqueira
12:15	Resource acquisition strategies predict seedling performance in a tropical dry forest restoration [ID:1047] Leland Werden, Jennifer Powers
12:30	Friends or enemies? Soil microbes show contrasting effects on dry forest seedlings facing drought [ID:1048] Camila Pizano
12:45	The environment vs tropical dry forests: importance of intraspecific variability of traits [ID:1054] Beatriz Salgado-Negret, Evert Thomas, Jhon Nieto, Elkin Tenorio, Alejandra Chaparro, Viviana Salinas & Fabian Garzón
13:00	LUNCH
14:30	Using functional traits to explain drought-induced liana mortality in tropical dry forest [ID:1055] Christina M. Smith-Martin & Jennifer S. Powers
14:45	Emerging patterns of plant functional strategies along hydric gradients in tropical forests [ID:1056] Horacio Paz
15:00	Effects of the potential invasive shrubs on soil hydraulic processes in a tropical dry ecosystem [ID:1057] Maribel Vásquez-Valderrama, René López-Camacho, María Piedad Baptiste & Beatriz Salgado-Negret
15:15	Conclusions

YUCATÁN 3 [Venue: FA]**Insect-Plant interactions: patterns and processes in a changing world****Organizers:** Tatiana Cornelissen & Roger Guevara

This symposium will focus on the impacts of global environmental changes on insect-plant interactions and their effects on community assemblage and ecosystem functioning.

TIME	PRESENTATION
11:00	Introduction
11:15	Forest cover on landscape scales is a driver for insect guilds diversity in tropical dry forests [ID:1042] Frederico Neves, Luiz Eduardo Macedo-Reis, Moisés Toribio & Mauricio Quesada
11:30	Fluctuating asymmetry, leaf sclerophylly and herbivory: an altitudinal gradient analysis [ID:1044] Ricardo Campos, Gabriel Lobregat, Miriam Perilli & Frederico Neves
11:45	Forest-flooded ecotones: ant species distribution in response to Canopies and natural succession. [ID:1045] Sérvio Ribeiro, Cinthia Milanez, Maria Fernanda Brito, Antonio Martins, Sarah Cunha & Renata Campos
12:00	Changes in plant-pollinator interactions deplete plant progeny fitness in fragmented landscapes [ID:1043] Ramiro Aguilar, Jacob Cristobal-perez, Francisco Balvino-Olvera, Maria de Jesús Aguilar-aguilar, Natalia Aguirre-acosta, Lorena Ashworth & Mauricio Quesada
12:15	Herbivory in the face of biological invasions [ID:1046]

Roger Guevara, Betsabe Ruiz, Ana Aguilar-Chama & Salvador González de León

12:30	Thirty years of insect-plant interactions in a nutshell: a review of responses to global change [ID:1041] Tatiana Cornelissen
12:45	Conclusions

YUCATÁN 4 [Venue: FA]

The impacts of agrarian change on local communities: sharing experience from the field

Organizers: Terence Sunderland

Does agrarian change in tropical landscapes really result in better livelihood outcomes?

TIME	PRESENTATION
11:00	Introduction
11:15	Agrarian changes and rural livelihoods in an upland landscape of Bangladesh [ID:1098] Ronju Ahammad, Terry Sunderland & Natasha Stacey
11:30	How do ecosystem services vary in different agrarian systems? A cross-site perspective [ID:1099] Stephanie Tomscha & Sarah Gergel
11:45	Beyond the land sparing vs. land sharing framework: views from agricultural scientists [ID:1101] Frédéric Baudron, Bram Govaerts, Andrew McDonald & Bruno Gérard
12:00	Can mapping forest loss, fragmentation, and change help improve long-term comparative analyses of livelihoods and equity in ecosystem services? [ID:1242] Sarah E. Gergel, SA Tomscha, KF Yang, IMS Eddy, F Baudron & TCH Sunderland
12:15	Consequences of forest loss for smallholders and their response in Southern Ethiopia [ID:1100] Jean-Yves Duriaux Chavarria, Frédéric Baudron, Sarah Gergel, Kevin Yang, Ian Eddy & Terry Sunderland
12:30	Drivers of dietary transitions: deforestation and agrarian change in complex rural landscapes [ID:245] Josh Van Vianen, Dominic Rowland Rowland, Amy Ickowitz, Bronwen Powell & Terry Sunderland
12:45	Conclusions

MÉRIDA [Venue: FA]

Tropical Pollination Services in the Anthropocene

Organizers: Mauricio Quesada, Silvana Marten-Rodríguez & Martha Lopezariza-Mikel

The symposium will present studies of pollination services on managed and natural ecosystems from the population to the metacommunity level, evidencing the importance of the conservation of plant-pollinator interactions for ensuring food production and ecosystem maintenance.

TIME	PRESENTATION
11:00	Introduction
11:15	Loss of rare orchid bees in the Amazon: effects of plateau size and bauxite mining [ID:1149] Geraldo Fernandes, Yasmine Itabaiana, Carolina Machado, Pedro Galetti Jr, Marcio Oliveira & Rodolfo Dirzo
11:30	The diversity of flower color and the pollination modes of rupestrian grasslands plants [ID:1146] Maria Gabriela Camargo, Marco Antônio Batalha & Leonor Patricia Cerdeira Morellato
11:45	Anthropic effects on pollinators in the southernmost limits of subtropical dry forests [ID:1145] Ramiro Aguilar, Lucas Carbone, Pablo Ramello & Lorena Ashworth
12:00	Reproductive plant phenology and pollination networks in a Costa Rican montane tropical forests [ID:1148] Eric J. Fuchs, Luis Diego Rios, Alfredo Cascante & Gilbert Barrantes
12:15	The importance of vertebrates in pollination ecosystem services [ID:1147] María Del Coro Arizmendi & Laura Nuñez Rosas
12:30	Pollinator crisis affects pollination services and food security in Latin American countries [ID:1150] Mauricio Quesada, Samuel Novais, Lorena Ashworth, Ramiro Aguilar, Ana Carolina Neves, Oliverio Delgado-Carrillo, Geraldo F Fernandes, Silvana Marten-Rodríguez, Martha Lopezariza & Jorge A Lobo
12:45	Conclusions

CELESTÚN [Venue: FA]**Primate conservation in human-disturbed habitats****Organizers:** Pedro Américo D. Dias & Víctor Arroyo-Rodríguez

Using novel information based on large sample sizes, we will address how different threatening processes emerging from anthropogenic disturbance in tropical landscapes affect primate populations, and which conservation and management strategies should be implemented to promote the long-term survival of primates in human-disturbed habitats.

TIME	PRESENTATION
11:00	Introduction
11:15	Demography and population viability of spider monkeys (<i>Ateles geoffroyi</i>) [ID:1002] Gabriel Ramos-Fernández, Sandra Smith Aguilar, Denise Spaan, Coral Eloisa Rangel Rivera, Colleen M. Schaffner, Laura G. Vick & Filippo Aureli
11:30	Evaluating extinction debt in the critically endangered mexican howler monkey [ID:1006] Jacob Dunn, Monica Alcocer-Rodríguez, Carmen Galán-Acedo, Jurgi Cristobal-Azkarate, Norberto Ascencio, Víctor Arroyo-Rodríguez, Katia Rito & Joaquim Veà
11:45	Determinants of lar and pileated gibbon abundance in a unique contact zone [ID:1003] Norberto Ascencio, Juan Manuel José Dominguez, Tommaso Savini, Chalita Kongrit, Chanpen Saralampa & Warren Brockelman
12:00	The conservation value of matrix composition for primates in fragmented habitat [ID:1001] Víctor Arroyo-Rodríguez, Carmen Galán-Acedo, Ellen Andresen & Ernesto Vega
12:15	The impact of anthropogenic disturbance on the viability of black howler monkeys [ID:1005] Pedro Dias, Alejandro Coyohua-Fuentes, Domingo Canales-Espinosa & Ariadna Rangel-Negrín
12:30	Determining the effects of habitat disturbance on Geoffroy's spider monkeys in the Yucatan peninsula [ID:1004] Denise Spaan, Gabriel Ramos-Fernández, Martha Bonilla-Moheno, Colleen Schaffner & Filippo Aureli
12:45	Conclusions

UXMAL [Venue: HI]**Biogeography, ecology and sustainability in Caatinga: the largest dry forest in South America****Organizers:** Inara Leal, Marcelo Tabarelli & José Maria Cardoso Da Silva

In this symposium we offer a broad overview and a new synthesis about the Caatinga biota from biogeography and ecosystem functioning to the infrastructure and governance required to achieve sustainability in the light of the SDTF state of art.

TIME	PRESENTATION
11:00	Introduction
11:15	The ecology and biogeography of neotropical seasonally dry tropical forests [ID:1211] Marcelo Tabarelli & Inara Leal
11:30	Origin and evolution of Caatinga flora [ID:1205] Luciano Paganucci de Queiroz, Domingos Cardoso, Moabe Fernandes & Marcelo Moro
11:45	Ants from Caatinga: diversity, biogeography and responses to climate change and human disturbance [ID:1206] Xavier Arnan, José Domingos Ribeiro-Neto, Fernanda MP Oliveira, Gabriela B Arcoverde, Rodrigo M Feitosa, Alan N Andersen & Inara R Leal
12:00	Current knowledge on the Caatinga fish fauna (species richness, endemism and conservation status) [ID:1208] Sergio Maia Queiroz Lima, Telton Pedro Anselmo Ramos, Márcio Joaquim Da Silva & Ricardo de Souza Rosa
12:15	Ecology and Biogeography of terrestrial vertebrates from the Brazilian Caatinga [ID:1213] Adrian Antonio Garda, Ana Paula Carmignotto, Daniel Oliveira Mesquita, Diego Astúa, Fagner Ribeiro Delfim, Flora Acuña Juncá, Gabriel Correa Costa, José Maria Cardoso Silva, Marcelo Felgueiras Napoli, Manuella Andrade de Souza, Mariana Garcez Stein, Marília Bruzzi Lion & Ricardo Bomfim Machado
12:30	Plant-animal interactions in the Caatinga: patterns, response to human disturbances and perspectives [ID:1209] Inara R. Leal, Ariadna Valentina Lopes, Isabel Cristina Machado & Marcelo Tabarelli
12:45	Sociocology of natural resource use in the Caatinga: lessons for biodiversity conservation [ID:1204] Ulysses Albuquerque, Elcida Araújo, Cibele Castro & Rômulo Alves
13:00	LUNCH

14:30	Cultural ecosystem services in the Caatinga: a big data approach [ID:1210] Richard Ladle, Chiara Bragagnolo, Ana Malhado & Ricardo Correia
14:45	The main threats to the Caatinga dry forest and their implications for conserving biodiversity [ID:1207] Elaine Ribeiro, Marcelo Tabarelli, Felipe Melo & Inara Leal
15:00	Future climate change in the Brazilian Caatinga biome [ID:1212] Roger Torres, Nancy Laura Rios Gamarra & David Lapola
15:15	Systematic conservation planning in the Caatinga drylands [ID:1215] Carlos Roberto Fonseca, Marina Antongiovanni & Eduardo Martins Venticinque
15:30	Sustainable development in the Caatinga, Brazil [ID:1214] José Maria Cardoso da Silva
15:45	Conclusions

TULUM [Venue: HI]

Participatory modeling and games to engage people in science based conservation ecology and planning

Organizers: N. Galia Selaya G., T. Trevor Caughlin & Stephen Perz

We discuss advances in participatory modeling approach, the engagement of non-scientist in scientific process, the use of games as a tool for scientific knowledge exchange and outreach, and data collection for simulation models, all aimed to balance conservation and development in tropical countries under multi-stakeholder views of landscape management options.

TIME	PRESENTATION
11:00	Introduction
11:15	Strategic socioecological board-games and ABMs: livelihoods of other people / other species. [ID:1073] Luis Garcia-Barrios, Marco Braasch, Paula Baquero Vargas, Juana Cruz-Morales, Pablo De la Cruz, Raúl Garcia-Barrios, Amayrani Meza-Jiménez, Ivette Perfecto, Erika Speelman & John Vandermeer
11:30	Ethnobotany in postmodern contexts: Linking tourism architecture and community forestry [ID:1071] José Antonio Sierra-Huelsz & Karen A. Kainer
11:45	Forests and fires: a tabletop game for teaching and research on natural resource management [ID:1240] Stephen Perz, Galia Selaya, Gregory Kiker & Rafael Munoz Carpena
12:00	Ganando ganado: a game to facilitate stakeholder review of tropical reforestation research [ID:1074] Trevor Caughlin, Mariana Valencia, Michael Bauman, Bethany Highsmith, Bryan Tarbox & Stephanie Bohlman
12:15	Participatory modeling to increase efficacy of environmental planning in gold mining in Peru [ID:1072] Johanna Espin
12:30	Gaming for landscape planning: a participatory tool to build up a shared conservation agenda [ID:1038] Galia Selaya, Trevor Caughlin & Stephen Perz
12:45	Conclusions

KABAH [Venue: HI]**Modeling Tropical Forest Dynamics and Element Cycles in an Era of Global Change****Organizers:** Jennifer Powers, David Medvigy & Annette Trierweiler

This symposium will highlight recent advances in 1) modeling tropical climates, 2) documenting and modeling how and when elements like nitrogen and phosphorus interact with carbon cycling, and 3) developing more realistic representations of tree hydraulic processes to simulate forest responses to changing climate.

TIME	PRESENTATION
11:00	Introduction
11:15	Current-generation climate change projections over different tropical ecosystems [ID:1061] Benjamin Linther
11:30	Modeling and measuring phosphorus at the root-soil interface for improved tropical forest models [ID:1063] Richard Norby, Xiaojuan Yang, Kristine Cabugao, Daniela Yaffar, Joanne Childs & David Weston
11:45	Tropical dry forest productivity and a changing hydrological regime: using measurements and models [ID:1062] David Medvigy, Xiangtao Xu, Jennifer Powers, Justin Becknell, Kaiyu Guan & Thomas Powell
12:00	Modeling tropical forest carbon dynamics and responses to nitrogen and phosphorus perturbation [ID:1059] Qing Zhu & William Riley
12:15	Capturing the function of nitrogen fixation in the tropical forest carbon sink [ID:1060] Sarah Batterman
12:30	Using tropical tree rings to validate models of tree growth and forest dynamics [ID:582] Pieter Zuidema, Frank Sterck, Mart Vlam, Peter Schippers, Peter Groenendijk & Peter Van der Sleen
12:45	Conclusions

MAYA [Venue: HI]**Working with others for carnivore conservation: interdisciplinary, participatory and action research****Organizers:** Rehema White, Sophie Calmé & Lou Lecuyer

This symposium aims to explore how tropical biologists can address conflicts around carnivore conservation in tropical regions by working with non-biologist academics and with non-academics, using interdisciplinary, participatory and action research approaches.

TIME	PRESENTATION
11:00	Introduction
11:15	Interdisciplinary and participatory action research for jaguar conservation in Mexico [ID:1091] Sophie Calmé, Lou Lecuyer, Harry Marshall, Rehema White
11:30	The socio-ecological approach for the conservation of large carnivores in Mexico [ID:1241] Juan L. Peña-Mondragón
11:45	Large carnivores conservation in a co-managed protected area of western Tanzania [ID:1092] Yves Hausser
12:00	Building field capacity in conflict transformation for sustainable conservation outcomes [ID:465] Lynn Kimmel
12:15	Global carnivore conservation: now hiring, more actors needed! [ID:1090] Anthony Giordano
12:30	Beyond participation to partnership: integrated conservation and the Sustainable Development Goals [ID:1088] Rehema White, Shona Russell, Sophie Calmé & Marie-Lou Lecuyer
12:45	Conclusions

ORAL SESSIONS

TUESDAY July 11th, 2017

ORAL SESSION

YUCATÁN 3 [Venue: FA]

Functional aspects of tropical ecosystems

TIME	PRESENTATION
14:30	Getting milk: The evolution of latex as a multidimensional functional trait in tropical plants [ID:323] Chris Baraloto, Yannick Estevez, Christophe Duplais, Diego Salazar, Paul Fine & Oscar Valverde-Barrantes
14:45	Can we use functional traits to predict species responses to logging disturbance? [ID:410] J. Aaron Hogan, Bruno Herault, Stephane Traissac, Benedicte Bachelot, Anaïs Gorel, Marianne Jounieaux & Christopher Baraloto
15:00	Stem photosynthesis and water transport responses to drought in southern Baja California peninsula [ID:174] Eleinis Ávila-Lovera, Christian Silva-Bejarano, Pedro P. Garcillán & Louis S. Santiago
15:15	How co-ordinated are traits of tropical trees at different scales? [ID:556] Lisa Patrick Bentley, Benjamin Blonder, Alexander Shenkin, Robin Martin, Norma Salinas, Gregory Asner, Brian Enquist, Sandra Diaz & Yadvinder Malhi
15:30	Large-scale shifts in community composition and biomass loss in a forest fragment after 40 [ID:51] Rakan Zahawi, Federico Oviedo-Brenes, Guillermo Duran, Urs Kormann & Chris Peterson
15:45	The role of soil fertility and moisture in explaining local scale floristic composition in Amazonia [ID:284] Gabriel Massaine Moulatlet, Camilo Daleles Rennó, Kalle Ruokolainen & Hanna tuomisto

YUCATÁN 4 [Venue: FA]

Ecology, genetics, and evolution of tropical systems II

TIME	PRESENTATION
14:30	Movement ecology of the giant forest hog of Kibale, Uganda [ID:151] Rafael Reyna-Hurtado, Colin A. Chapman, Edith Rojas-Flores, Mauro Sanvicente, Sophie Calmé, Patrick Omeja & Martin Mukasa
14:45	Variation in trait plasticity among Bornean tree species with contrasting ecological strategies [ID:397] Sabrina E. Russo & Ju Ping Chan
15:00	Acorn size, seed germination seedling morphology and leaf traits among oaks in Talamanca-Costa Rica [ID:425] Maritza Guerrero-Barrantes, Susana Meono, Oscar Rocha & Marco Gutierrez-Soto
15:15	Genetic structure of the CITES-listed rosewood species <i>Dalbergia oliveri</i> from Indochina [ID:633] Hoa Tran
15:30	Genetic diversity of two tropical trees following enrichment-planting strategy in Borneo [ID:632] Cheng Choon Ang, Michael J. O'Brien, Kevin Kit Siong Ng, Ping Chin Lee, Andy Hector, Bernhard Schmid & Kentaro K. Shimizu

MÉRIDA [Venue: FA]

Biotic interactions in tropical ecosystems II

TIME	PRESENTATION
14:30	Tropical plants and fungal symbionts: leaf traits as drivers of plant-fungal endophyte interactions [ID:278] Peter Tellez, Elizabeth Arnold & Sunshine Van Bael
14:45	Hints at the structure of the arbuscular mycorrhizal fungal community from a coffee agroecosystem [ID:613] Laura Aldrich-Wolfe, Katie Black, W. Gaya Shivega, Elizabeth Sternhagen, Eliza Hartmann, Peter Johnson, Riley McGlynn, Logan Schmaltz & Rebecca Asheim
15:00	Escaping unharmed from the host ant nest: the case of the parasitoid fly <i>Hypselosyrphus trignonus</i> [ID:299] Franklin H. Rocha, Jean-Paul Lachaud & Gabriela Pérez-Lachaud
15:15	Effect of predation risk on microhabitat use by African giant pouched rats (<i>Cricetomys sp.</i>) [ID:253] Biplang Yadok, Roger Pech, Daniel Gehard, Pierre-michel Forget & Hazel Chapman
15:30	Counting the costs of mercenaries: measuring the impacts of guardian ants on ant-plants pollination [ID:311] Nora Villamil Buenrostro, Graham Stone, Matt Bell & Karina Boege Paré
15:45	Non-consumptive effects of ants on coffee pest facilitate ground ant predators to enhance biocontrol [ID:402] Jonathan Morris & Ivette Perfecto

CELESTÚN [Venue: FA]

Seed and seedling ecology

TIME	PRESENTATION
14:30	Seed and establishment limitation at small spatial scale: implications for savanna plant diversity [ID:108] Alexander Christianini & Vanessa Mariano
14:45	Habitat filtering, dispersal limitation and local tree species coexistence: a matter of scale [ID:33] David Bauman & Thomas Drouet
15:00	Return of the seed: a fourteen-year mast seeding interval in a Neotropical monodominant tree [ID:188] Terry Henkel & Jordan Mayor
15:15	Contrasting seed rain patterns generated by functionally dissimilar frugivores using a novel modelling technique [ID:198] Sachin Sridhara, Will Edwards, Soumya Prasad & David Westcott

TULUM [Venue: HI]

Tropical biodiversity and conservation in human modified landscapes

TIME	PRESENTATION
14:30	Land use legacy effects on woody vegetation in agricultural landscapes of southwestern Ethiopia [ID:297] Girma Shumi Dugo, Jannick Schultner, Ine Dorresteijn, Patricia Rodrigues, Jan Hanspach, Kristoffer Hylander, Feyera Senbeta & Joem Fischer
14:45	Agricultural land-use diversity and forest regeneration in human-modified tropical landscapes [ID:538] Isela Zermeño-Hernández & Miguel Martínez-Ramos
15:00	Can community-protected areas conserve biodiversity in human-modified tropical landscapes? [ID:438] Carlos Muench & Miguel Martínez-Ramos
15:15	Agricultural activities in a forest-dominated landscape: impacts on bats diversity and composition [ID:453] Farah Carrasco-Rueda & Bette Loisel
15:30	An evaluation of jaguars as an umbrella species for endemic herpetofauna in nuclear Central America [ID:528] Joe Figel, Franklin Castañeda, Ana Patricia Calderón, Elí García-Padilla & Reed Noss
15:45	<i>In vitro</i> propagation of the giant bamboo <i>Guadua Kunth</i> in the southwestern Amazon, Brazil [ID:456] João Ricardo Avelino Leão, Andréa Raposo, Elias Melo de Miranda, Renata Beltrão Teixeira Yomura, Lucielio Manoel da Silva, João Paulo da Cunha Lima, Stoney Nascimento Pinto, Ana Claudia Lopes, Susana Melo & Raul Oscar Escalera Acosta

KABAH [Venue: HI]

Restoration of degraded tropical ecosystems

TIME	PRESENTATION
14:30	Adoption orchids for restore Mount Merapi National Park after the eruption of Mount Merapi in 2010 [ID:106] Arif Sulfianton
14:45	The efficiency of different land restoration strategies at soil ecosystem recovery in Costa Rica [ID:120] William Eaton, Kathleen McGee, Alex Lemenze & Robert Donnelly
15:00	Ecological restoration of arid lands: new methods from Caatinga vegetation [ID:181] Gislene Ganade
15:15	Fruit preferences by birds based on fruit chemistry and plant selection for restoration projects [ID:226] Marco Aurélio Pizo & Tomas Carlo
15:30	Landscape structure effects on plant-pollinator networks in Atlantic Forest restoration areas [ID:265] Danilo Boscolo, Mauricio Nogueira Martins & Patricia Alves Ferreira
15:45	Major network reorganizations punctuate the assembly of plant-pollinator communities [ID:489] Marilija Palumbo Gaiarsa, Lauren C. Ponisio & Claire Kremen

MAYA [Venue: HI]
Invasive species

TIME	PRESENTATION
14:30	Soil quality and biotic factors related to the invasion of bracken fern in the Lacandona, Mexico [ID:190] Karolina Riaño & Mayra Gavito
14:45	Invasion of woody plants in the Hawaiian Islands along ecological gradients [ID:242] Dylan Craven & Tiffany Knight
15:00	Dogs in the Atlantic Forest: a map of the risk of invasion across the entire phytogeographic domain [ID:384] Fernando Ribeiro, Elizabeth Nichols & Renata Pardini
15:15	Global-scale mechanisms of species' abundances in native and alien ranges [ID:407] Masha van der Sande, Tiffany Knight, Marten Winter, Helge Bruehlheide, Oliver Purschke, Jürgen Dengler & Sylvia Haider

POSTERS
TUESDAY July 11th, 2017

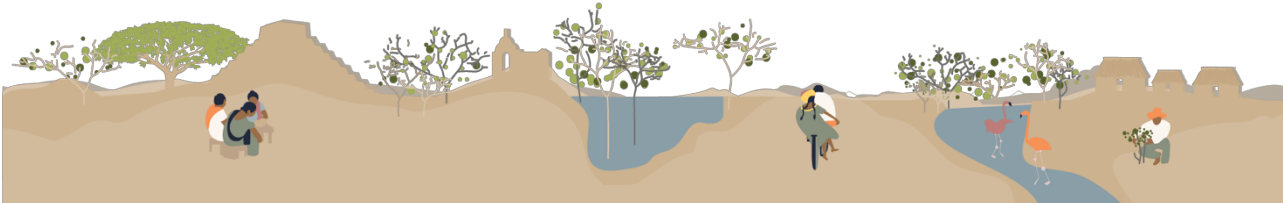
POSTER BOARD	PRESENTATION
1	Food availability and sex as determinants of patterns in the fission-fusion dynamics of <i>A. geoffroyi</i> [ID:511] Adriana R. Aguilar-Melo, Sophie Calmé, Braulio Pinacho-Guendulain, Sandra Smith-Aguilar & Gabriel Ramos-Fernández
2	<i>Marmosops incanus</i>' abundance is related to environmental suitability and richness of small mammals [ID:159] Alan Braz, Marcelo Weber, Marcos Figueiredo & Carlos Eduardo Grelle
3	Environmental and historical factors as drivers for population divergence in oaks [ID:507] Andrés Torres-Miranda, Vanessa Elisabeth Sánchez-Acevedo, Maribel Arenas-Navarro, Alberto Pérez-Pedraza, Reyna Maya-García, Francisco Javier Pilar-Barrera & Ken Oyama
4	Spectral reflectance of pioneer species of the Tropical Dry Forest [ID:463] Antonio López Chávez, Mariana Yolotl Álvarez Añorve, Luis Daniel Ávila Cabadilla & Marisela Pineda Cortés
5	<i>Puma concolor</i> roadkill in Southeastern Brazil: the sex bias impact on population genetic diversity [ID:317] Bruno Henrique Saranholi, Renata Alonso Miotto & Pedro Manoel Galetti Junior
6	Influence of landscape structure on the density of titi monkeys in a fragmented Neotropical forest [ID:148] Carla Gestich, Víctor Arroyo-Rodríguez, Milton Ribeiro, Rogério da Cunha & Eleonore Setz
7	Genetic diversity and population structure of Formosan Reeves' muntjac in Taiwan [ID:554] Cheng-Jou Tan, Yu-Ten Ju & Hsueh-Wen Chang
8	Genetic and morphological differentiation in <i>Rhizophora mangle</i> L. [ID:602] Diana Cisneros de la Cruz, Jaime Martínez Castillo, Jorge Herrera Silveira, Laura Yáñez Espinosa, Roberth Us Santamaria, Matilde Ortiz García & José Luis Andrade
9	Divergence times and evolutionary patterns of extant biodiversity in the Brazilian Cerrado [ID:449] Fabricius Domingos, Gabriela Rodrigues & Marina Scalon
10	Genetic and phenotypic variation associated to climate in <i>Quercus deserticola</i> on Mexican highland [ID:204] Flor Rodríguez-Gómez, Ken Oyama, Magaly Ochoa-Orozco, Luis Mendoza-Cuenca & Antonio González-Rodríguez
11	Population history of <i>Lagonosticta sanguinodorsalis</i>, inferred from mtDNA sequence data [ID:244] Jacinta Abalaka, Bengt Hansson, Paulette Bloomer & Ulf Ottosson
12	Selective capture of prey to the offspring of the piscivorous guild of birds in the coast of Yucatan [ID:452] Jocelyn Alvarez-Anguiano, Maribel Badillo-Alemán & Xavier Chiappa-Carrara
13	Fruiting phenology in a tropical dry forest: effects of abiotic factors and functional traits [ID:182] Jorge Cortés-Flores, Guadalupe Cornejo-Tenorio, Lina Adonay Urrea-Galeano, Ellen Andresen, Antonio González-Rodríguez & Guillermo Ibarra-Manríquez
14	White-lipped peccary home-range size in hunted and non-hunted areas in the Maya Forest [ID:396] José Fernando Moreira Ramírez, Rafael Reyna Hurtado, Mircea Hidalgo Mihart, Eduardo Naranjo, Rony Garcia, Roan McNab, Milton Ribeiro, Melvin Merida, Jeremy Radachowsky & Gabriela Ponce Santizo
15	Stingless bee (<i>Teragonisca angustula</i>) foraging activity and success in dynamic resource environments [ID:205] Kaleigh Fisher, Aldo de la Mora & S. Hollis Woodard
16	Genetic variation in maned wolf in protected and unprotected fragments in tropical savanna [ID:263] Karen Giselle Rodriguez-Castro & Pedro Manoel Galetti jr.
17	Accounting for geographical patterns of Mexican coniferous diversity [ID:147] Libertad Sánchez-Presa, Markus P. Eichhorn & Richard Field
18	Ectomycorrhizal fungi in the tropical dry forests of the Yucatan Peninsula [ID:421] Louise Egerton-Warburton & Steven Finkelman
19	Community analysis in social networks, a strategy for analyzing biogeographical complexity [ID:491] Manuel Zepeda-Pirron, Andrés Torres-Miranda, Marisol Flores-Garrido & Ken Oyama
20	Distribution and genetic diversity of wild populations of <i>Carica papaya</i> at its centre of origin [ID:327] Mariana Chávez-Pesqueira, Pilar Suárez-Montes, Ana Wegier, Valeria Álvarez & Juan Núñez-Farfán
21	Trait variability of <i>Gaultheria serrata</i> at different scales in mountaintop areas of Southeast Brazil [ID:144] Mayara Vescovi Assis & Eduardo Arcoverde de Mattos
22	Diet of oilbirds in southern Colombia: temporal variation, fruit choice and seed morphology [ID:225] Pablo R. Stevenson, Laura M. Cardona, Diana C. Acosta, Luis F. Henao & Sasha Cardenas
23	Genetic assessments for the endangered black lion tamarin <i>Leontopithecus chrysopygus</i> (Primates) [ID:310]

24	Human disturbances and rainfall effects on plant-insect herbivore interactions in the Caatinga [ID:498] Pedro Santos-Neto, Xavier Arnan, José Ribeiro-Neto, Inara Leal
25	Movement patterns of two endangered ungulates of the Maya Forest [ID:156] Rafael Reyna-Hurtado, José Fernando Moreira-Ramírez, Wilber Martínez, Khiavett Sanchez-Pinzon, Edwin Hernandez-Perez, Sophie Calme, Mauro Sanvicente, Natalia Carrillo, Jonathan Perez-Flores & Mircea Hidalgo
26	Morphological divergence in a tropical oak of wide geographic and elevational distribution [ID:627] Reyna Maya-García, Pablo Cuevas-Reyes, Andrés Torres-Miranda & Ken Oyama
27	Distinct phylogeographic patterns in the Mexican oak <i>Quercus glaucooides</i> [ID:171] Ricardo Gaytan-Legaria & Antonio González-Rodríguez
28	Rodent assemblages in early successional stages of tropical dry forest succession. [ID:458] Sharon Morales Díaz, Luis Daniel Ávila Cabadilla, Mariana Yoloti Álvarez Añorve, Mayra Edith Zamora Espinoza, Ken Oyama & Rodolfo Dirzo
29	Use of molecular markers to study conservation of <i>Guadua sarcocarpa</i> in the Brazilian Amazonian [ID:562] Susana Maria Melo Silva, Jonny Everson Scherwinski Pereira, Lucia Helena de Oliveira Wadt, Tatiana de Campos, Hellen Sandra Azêvedo, Sabrina Oliveira, Gleisson De Oliveira Nascimento, João Ricardo Leão & Lucielio Manoel Da Silva
30	Effect of CO₂ increasing on two species native of Cerrado [ID:443] Yumi Oki, Bárbara Silveira, Marina Costa, G. Wilson Fernandes & Barbara Nunes
31	The influence of National Parks on poverty traps for human populations living in dry forests [ID:530] Cristina Baldauf, Maria Joana Specht, Bráulio Almeida Santos, Marcelo Tabarelli, Nadine Marshall & Inara Leal
32	Comparison between hunters' knowledge and transect surveys of game species in an African Rainforest [ID:368] Hirokazu Yasuoka, Towa OW Kamgaing & Nzeun's CB Dzeffack
33	Taro diversity and conservation of agroforestry genetic resources in Vietnam [ID:634] Hoa Tran, Patrick Van Damme, Bohdan Lojka & Zbynek Polesny
34	The knowledge and use of trees are influenced by their local availability in the ecosystems [ID:178] Paulo Henrique Gonçalves, Ulysses Paulino de Albuquerque & Patrícia Muniz de Medeiros
35	Characterizing the optimal conditions for the production of Darutoside in <i>Sigesbeckia orientalis</i> [ID:18] Rindra Harilanto Nantenaina, Edmond Roger, Verohanitra Rafidison
36	Ecological engineering for the birds: quantifying avian diversity in Hach Winik Maya agroforests [ID:52] Tomasz Falkowski, Jose Luis Rangel, Jose Raul Vazquez Perez, Atzin Campos, Stewart Diemont, Adolfo Chankin & Robert Padian
37	Cattle foraging behavior and impacts to tree community structure in Mexican tropical dry forest [ID:103] Carlos A. de la Rosa
38	Examining the effects of fragmentation and predators on ground-nesting bird nests in the Neotropics [ID:487] Christopher Fernandez & Michael V. Cove
39	Saving Utila: a multi-disciplinary approach to conserving a Caribbean island [ID:549] Holly Black, Ashley Zubeck, Andrea Albergoni, Daisy Maryon & Tom Brown
40	Crop management effects on lepidoptera and other herbivore insects community in coffee plantations [ID:404] Inari Sosa Aranda, Karina Boege Paré & Ek del Val de Gortari
41	Bioacoustic niche dynamics of understory birds in varying conditions of anthropogenic noise [ID:175] J Edgardo Arevalo, Rachel Ramsey & Alec Fleischer
42	Means and ends: Operational tools and action points towards reconciling conservation and development [ID:45] James Reed, Josh van Vianen, Jos Barlow & Terry Sunderland
43	Local coffee farm intensification impacts on ant community composition and biological control [ID:414] Kayla Mathes, Jonathan Morris & Ivette Perfecto
44	Can forest conservation increase food production? [ID:508] Kevin Yang, Sarah Gergel & Frédéric Baudron
45	How pasture management can influence in the ecological functions performed by dung beetles? [ID:275] Raquel Carvalho & Heraldo Luis de Vasconcelos
46	Oases of biodiversity: birds and butterflies in Thai forest monasteries [ID:419] Sarah Maunsell, Siriya Sripanomyom, George Gale, Naomi Pierce & David Lohman
47	The cultivation of coca leaf as an alternative development for the Andean communities [ID:107] Troyano Dora & Anaya Socorro
48	Influence of the structure of an old landscape on the occurrence of endemic bird species [ID:211] Tulaci Bhakti, Fernando Goullart, Cristiano Azevedo & Yasmine Antonini

49	Effects of CO₂ elevation and temperature on the development in millet <i>Pennisetum glaucum</i> (L.) R. BR [ID:574] Yumi Oki, Gabriela Lima, Leandra Bordignon & Geraldo Fernandes
50	Character bioacoustics white-rumped shama <i>Copsychus malabaricus</i> (Scopoli, 1788) as a cage-bird [ID:17] Novia Liza Rahmawaty, Wilson Novarino & Muhammad Nazri Janra
51	Long-term monitoring of honeybees (<i>Apis dorsata</i>) and impact of ban on harvest in Western Ghats India [ID:260] Siddappa Setty R, Kamal Bawa & Sharachchandra Lele
52	Ecological restoration of Brazilian Cerrado area degraded using branches transposition and seed bank [ID:168] Angela Pereira Bussinguer, Anderson José Ferreira de Oliveira, Fabiana Campos Ribeiro, Mikaela Soares Silva Cardoso, Marco Bruno Xavier Valadão, Jessica Cristina Barbosa Ferreira, Ilvan Medeiros Lustosa Júnior, Maisa Isabela Rodrigues, Karla Monique Silva Carneiro Valadão & Alcides Gatto
53	Facilitation potential by Brazilian savanna species [ID:546] Daniel Alves Vieira, Marco Bruno Xavier Valadão, Renan Miranda Matias, Pedro Henrique Fernandes, Jonas Inkotte, Alcides Gatto & José Roberto Rodrigues Pinto
54	Divergent successional trajectories in 10-year old restoration settings [ID:290] Edith Rivas-Alonso, Cristina Martínez-Garza, Marínés De la Peña-Domenech & Moisés Méndez-Toribio
55	Birds diversity present in a restored forest and an urban park in the city of Merida, Yucatan [ID:189] Gerardo Iván Linares Hernández, Alfredo Dorantes Euan & Richard Evan Feldman
56	Physical properties of mine tailings can inhibit the establishment of native seedlings planted [ID:547] Jonas Inkotte, Daniel alves vieira, Pedro Henrique fernandes, Thalles Oliveira Martins, pedro vilela gondin Barbosa, Renan Miranda Matias, Marco Bruno Xavier Valadão & Alcides Gatto
57	Selecting useful tropical tree species for ecological restoration of fields with bracken fern [ID:586] Lilibeth Toledo-Chelala & Miguel Martínez-Ramos
58	Natural regeneration in understory of <i>Eucalyptus</i> sp. in Cerrado biome, Federal District, Brazil [ID:176] Marco Bruno Xavier Valadão, Daniel Alves Vieira, Jonas Inkotte, Alcides Gatto, Karla Monique Silva Carneiro Valadão, Fabiana CamposRibeiro, Angela Pereira Bussinguer, Jéssica Cristina Barbosa Ferreira, Maisa Isabela Rodrigues & Ilvan Medeiros Lustosa Junior
59	Potential of seed dispersion by birds using fruits offered in feeders [ID:87] Mariana Campagnoli & Alexander Antunes
60	Considering species-specific interactions complexity to restore semiarid tropical forests [ID:75] Marina Fagundes, Wolfgang Weisser & Gislene Ganade
61	Direct seeding of tropical tree to restore agricultural fields invaded by <i>Pteridium aquilinum</i> [ID:622] Mayra del Carmen Fragoso Medina, Miguel Martínez-Ramos, Horacio Paz, Cristina Martínez Garza & Gilberto Jamangapé García
62	Forest management, functional and ultrastructural adjustments in plant species from Atlantic forest [ID:36] Milena Teixeira, Fernanda Trindade, Maura da Cunha, Carlos Rezende & Angela Vitória
63	Are restored riparian forests efficient for the conservation of biodiversity and ecological process? [ID:209] Yasmine Antonini, Maria Wojakowski, Alessandra Kozovits, Cristiano Azevedo, Maria Rita Pires, Maria Cristina Messias, Mariangela Leite, Joice Martins, Graziella Monteiro & Rodolfo Dirzo
64	Sea turtle monitoring during seismic survey by R/V Maurice Ewing off Northern Yucatan Peninsula, MX [ID:385] Eduardo Cuevas & Meike Holst
65	Analyses of environmental impact assessment resolutions at the coast of the Yucatan peninsula, MX [ID:400] Eduardo Cuevas & Consuelo Díaz-Aguilar
66	Children's knowledge of local wildlife in Southeastern Mexico [ID:486] Juan L. Peña-Mondragón & Mircea G. Hidalgo-Mihart
67	Perspectives of conservation from multiple actors: the case of the ZPE-Chicamole, Mexico. [ID:426] Karina Calva-Soto, Jessica Bravo-Cadena, Daniela Ortega-Meza & María T. Pulido
68	Education in tropical ecology: results from an undergraduate Plant Ecology course [ID:11] Klara Schamaql
69	Beyond economic imperialism: bush-meat and the importance of social relations, place and time [ID:248] Luke Parry, Patricia Torres & Erick Chacon Montalvan
70	Landowners reveal different expectations about a forest certificate trading scheme [ID:141] Marta Giannichi, Timothy Baker, Martin Dallimer & Guy Ziv
71	Timber, carbon and money Scenarios for Forest Communities on the Yucatan Peninsula [ID:28] Sebastian Palmas

Wednesday

July 12th, 2017



TIME		SITE	WEDNESDAY July 12th, 2017	
8:00-9:00	Welcome desk (FA)	REGISTRATION		
9:00-10:30	Yucatán 1 & Yucatán 2	[PS] Debate Land Sparing and Land Sharing: Can we have both? Ivette Perfecto & Ben Phalan		
10:30-11:00	Corridors of FA & HI	COFFEE BREAK		
11:00-13:00	Yucatán 1 (FA)	[SYMP] Conservation challenges in the agro-forest frontier; past, present and future		
	Yucatán 2 (FA)	[SYMP] Defaunation and ecosystem services		
	Yucatán 3 (FA)	[SYMP] Quantitative acoustic ecology: using sound in tropical biodiversity research and conservation		
	Yucatán 4 (FA)	[SYMP] A landscape perspective on biodiversity conservation and management in oil palm mosaics		
	Mérida (FA)	[SYMP] Bridging conservation ecology and genomics in the study of species with Crassulacean Acid Metabolism		
	Celestún (FA)	[SYMP] Exploring the fate of tropical forests under drier climates: linking mechanisms to models		
	Uxmal (HI)	[SYMP] Structure, function, and dynamics of tropical ecosystems		
	Tulum (HI)	[SYMP] Lightning talks and networking in tropical science: ATBC-SECSCI Chapter symposium		
	Kabah (HI)	[SYMP] New Views of Structural Complexity and Tropical Ecosystem Function		
Maya (HI)	[SYMP] Leaf cutter ants and forest ecosystem processes			
13:00-14:30	Restaurants of FA & HI	LUNCH		
		Mentoring circles (Restaurant: Café Montejo; FA)*		
14:30-16:00	Yucatán 1 (FA)	[SYMP] Conservation challenges in the agro-forest frontier; past, present and future		
	Yucatán 2 (FA)	[SYMP] Defaunation and ecosystem services		
	Yucatán 3 (FA)	[OS] Tropical forests and climate change		
	Yucatán 4 (FA)	[OS] Ecology, genetics, and evolution of tropical systems III		
	Mérida (FA)	[SYMP] Bridging conservation ecology and genomics in the study of species with Crassulacean Acid Metabolism		
	Celestún (FA)	[OS] Effects of hurricane and fire disturbances on tropical ecosystems		
	Uxmal (HI)	[OS] Ecology of plant growth		
	Tulum (HI)	[OS] Diversity changes in environmental gradients		
	Kabah (HI)	[OS] Ecosystem functioning in secondary and mature tropical forests		
	Maya (HI)	[OS] Biotic interactions in tropical ecosystems III		
CIS (FA)	[SE] Game salon: hands-on demonstration of role-playing games for ecology and conservation			
16:00-17:00	Corridors of Holiday Inn	COFFEE BREAK & POSTERS		
	Uxmal (HI)	Audiovisual session		
	Tulum (HI)	Audiovisual session		
	Kabah (HI)	[SC] Scientific café		
	CIS (FA)	[SE] Game salon: hands-on demonstration of role-playing games for ecology and conservation (continuation)		
17:10- 18:40	Yucatán 1 & Yucatán 2	[PS] Panel discussion The role of secondary forests in restoration and biodiversity conservation Robin Chazdon, Thomas Rudel, Laura C. Schneider, Bernardo B. Neves & Manuel R. Guariguata		

*The lunch will be served in these sessions

(FA): Fiesta Americana Hotel (HI): Holiday Inn Hotel

[PS]: Plenary session

[SYMP]: Symposium

[OS]: Oral session

[SE]: Side event

[SC]: Scientific Café

SYMPOSIA

WEDNESDAY July 12th, 2017

YUCATÁN 1 [Venue: FA]

Conservation challenges in the agro-forest frontier; past, present and future

Organizers: Madelon Lohbeck & Cristina Martínez-Garza

Conservation of tropical habitats in managed landscapes depends on the complex interaction between people and their environment. This symposium brings together a range of interdisciplinary landscape-studies and aims to increase understanding of conservation within dynamic agro-forest frontiers.

TIME	PRESENTATION
11:00	Introduction
11:15	Challenges in agro-forest frontiers [ID:1227] Frans Bongers, Lijbert Brussaard & Thomas W. Kuyper
11:30	The fate of forests in agro-forest frontier landscapes, implications for conservation [ID:1220] Madelon Lohbeck, Mathieu Decuyper, Miguel Martínez-Ramos & Frans Bongers
11:45	Landscape transformation history in Loma Bonita, Lacandona Jungle, Southern Mexico [ID:1226] Carolina Berget, Frans Bongers, Eduardo Garcia Frapolli & Gerard Verschoor
12:00	Deforestation-reforestation in Mesoamerican mountains as rural livelihood response to neoliberalism [ID:1223] Luis Garcia-Barrios, Noelle Beckman & Elena Lazos-Chavero
12:15	Tradeoffs between bundles of ecosystem services in human-modified landscapes [ID:1224] Patricia Balvanera
12:30	Using agroforestry approaches to promote conservation in rubber dominated landscapes [ID:1225] Rhett Harrison
12:45	The socio-ecology of tired lands: a basis for managing resilience in Amazonia [ID:1219] Catarina Jakovac, Marielos Peña-Claros, Thom Kuyper & Frans Bongers
13:00	LUNCH
14:30	The role of participatory monitoring in forest restoration [ID:1216] Manuel Guariguata & Kristen Evans
14:45	Balancing biodiversity losses with profitability in the Atlantic Forest of Brazil [ID:1218] Cristina Banks-Leite
15:00	Improved management towards novel agroecosystems [ID:1217] Marinés De la Peña-Domene, Luz María Ayestarán-Hernández, José Flavio Márquez-Torres, Edith Rivas Alonso, Jose Antonio Sierra Huelsz, Cristina Martínez-Garza & Homero Julio Campo Alves
15:15	Mexican experiences in restoration. How to comply with international agreements? [ID:1221] Cristina Martínez-Garza, Moisés Méndez-Toribio, Eliane Ceccon & Manuel Guariguata
15:30	Technological innovation for nature conservation in productive landscapes [ID:1222] Mayra E. Gavito & Hans Van der Wal
15:45	Conclusions

YUCATÁN 2 [Venue: FA]**Defaunation and Ecosystem services**

Organizers: Carolina Bello, Carlos Peres & Jedediah Brodie

Tropical defaunation is more than the loss of charismatic animals. Defaunation can also affect key ecosystems services across different tropical biomes, with implications for global conservation and climate change.

TIME	PRESENTATION
11:00	Introduction
11:15	Dynamics of an empty forest in Perú: 11 years later [ID:1016] John Terborgh, Timothy Paine, Harald Beck, Varun Swamy, Kirsten Hazelwood, Patricia Alvarez, Elizabeth Pringle & Fernando Comejo
11:30	A pantropical assessment of physical damage to forest seedlings and the impact of defaunation [ID:1022] Varun Swamy, Cooper Rosin, John R. Poulsen & Alys Granados
11:45	Revitalizing the natural phosphorus pump [ID:1015] Chris Doughty & Joe Roman
12:00	Searching for signals of defaunation-induced carbon loss at regional scales [ID:1017] Jedediah Brodie, Greg Asner, Mairin Deith & Alys Granados
12:15	Continental-scale carbon savings from tropical forest bushmeat hunting [ID:1018] Carlos Peres & Ana Cristina Mendes-Oliveira
12:30	Defaunation of seed dispersers and predators affects carbon storage in tropical forest [ID:1013] Carolina Bello, Laurence Culot & Mauro Galetti
12:45	Bird and bat predation services in tropical landscapes - spatial context and abundance relationships [ID:1021] Bea Maas
13:00	LUNCH
14:30	Context dependent effects of large wildlife loss on zoonotic disease risk [ID:1014] Hillary Young
14:45	Estimating economic losses to tourism in Africa from the illegal killing of elephants [ID:1020] Robin Naidoo, Brendan Fisher, Andrea Manica & Andrew Balmford
15:00	Conclusions

YUCATÁN 3 [Venue: FA]**Quantitative acoustic ecology: using sound in tropical biodiversity research and conservation**

Organizers: Jessica L. Deichmann & T. Mitchell Aide

Sounds reveal a wealth of information about ecosystems. Quantitative acoustic ecology allows tropical biologists to address questions of ecosystem function and impacts of anthropogenic change on tropical biodiversity and ecosystems.

TIME	PRESENTATION
11:00	Introduction
11:15	Coping with global change: shifts in anuran distribution in a tropical mountain [ID:1119] Marconi Campos-Cerqueira & Mitchell T. Aide
11:30	The effects of noise on the soundscape in an Brazilian Atlantic Forest remnant [ID:1121] Fernando D'Horta & Christian Andreotti
11:45	Soundscapes reveal impacts of natural gas exploration in a tropical forest [ID:1120] Jessica Deichmann, Andrés Hernández Serna, J.Amanda Delgado Comejo, Marconi Campos Cerqueira & T. Mitchell Aide
12:00	Linking soundscapes patterns to the vegetation structure in the Amazon Rainforest [ID:1124] Leandro Do Nascimento & Karen Beard
12:15	Behavioral Biogeography: The effects of forest fragment size and isolation on acoustic meme diversity in birds [ID:1125] Patrick J. Hart & Esther Sebastian-Gonzalez
12:30	Large scale bioacoustics-based biodiversity monitoring of Mexico [ID:1122] Everardo Robredo, Julian Equihua & Veronica Zamora-Gutierrez
12:45	Conclusions

YUCATÁN 4 [Venue: FA]**A landscape perspective on biodiversity conservation and management in oil palm mosaics**
Organizers: John Garcia Ulloa, Natalia Ocampo-Peñuela & Jaboury Ghazoul

We present a landscape perspective on biodiversity conservation in oil palm mosaics, focusing on connectivity, ecosystem services, carbon storage, and landscape management spanning the three tropical areas of the world and bringing insights from different regions, taxa, approaches, and perspectives.

TIME	PRESENTATION
11:00	Introduction
11:15	Forest connectivity for seed dispersal in Borneo: before and after oil palm development [ID:1108] Natalia Ocampo-Peñuela, John Garcia-Ulloa, David Gaveau & Jaboury Ghazoul
11:30	Do High Conservation Value (HCV) areas improve rainforest connectivity in oil palm landscapes? [ID:1111] Sarah Scriven, Kimberly Carlson, Jenny Hodgson, Robert Heilmayr, Colin McClean, Jennifer Lucey & Jane Hill
11:45	Exploring biodiversity-yield trade-offs in rubber and oil palm smallholder systems [ID:1109] Ingo Grass
12:00	Integrated landscape approaches to managing social and environmental issues in the tropics [ID:1110] Terence Sunderland
12:15	Reframing the evidence base: ensuring our research makes a difference to oil palm sustainability [ID:1107] Jennifer Lucey, Georgina Palmer, Kok Loong Yeong, David Edwards, Michael Senior, Sarah Scriven, Glen Reynolds & Jane Hill
12:30	Realizing ecologically sound land-use planning in the oil-palm industry [ID:1112] John Garcia-Ulloa, Jaboury Ghazoul, Mike Hoffmann & Lian Pin Koh
12:45	Conclusions

MÉRIDA [Venue: FA]**Bridging conservation ecology and genomics in the study of species with Crassulacean Acid Metabolism**

Organizers: Katia Silvera, Eloisa Lasso & Casandra Reyes

The role of this symposium is to bridge current research on Crassulacean Acid Metabolism, one of three photosynthetic pathways found in plants, with ecophysiology, biochemistry and genomics, and apply knowledge to conservation efforts to better predict the effects of climate change on CAM epiphytic and succulent species.

TIME	PRESENTATION
11:00	Introduction
11:15	Evolution and diversification of CAM in tropical epiphytic orchid species [ID:1190] Katia Silvera, Klaus Winter, Norman C. Ellstrand, Karolina Heyduk, Victor Albert & James H. Leebens-Mack
11:30	Vanilla species in the Choco Wet Forest (Colombia) distribution and functional traits [ID:1185] Ana Maria Benavides Duque, Eva Ledezma, Erika Restrepo & Catalina Ramirez
11:45	Evaluating the occurrence of CAM photosynthesis in orchids from Colombia's contrasting habitats [ID:1183] Germán Torres Morales, Eloisa Lasso, Katia Silvera, Benjamin Turner & Klaus Winter
12:00	Seasonal expression of CAM photosynthesis in three species of <i>Clusia</i> in Panama [ID:1189] Klaus Winter
12:15	Under what conditions <i>Clusia</i> expresses CAM photosynthesis, C3 or any of its intermediate forms? [ID:1155] Paula Pachon Alfonso, Eloisa Lasso, Klaus Winter & Benjamin Turner
12:30	Engineering tissue succulence and CAM to improve plant water-use efficiency [ID:1187] John Cushman, Won Cheol Yim, Jungmin Ha, Bernard W. M. Wone, Pradeep K. Yerramsetty, Travis Garcia, Jesse A. Mayer, Lisa M. Petrusa & Sung Don Lim
12:45	Being CAM in the Yucatan: Strategies for survival in key species [ID:1191] Casandra Reyes-García, Stephany Peniche Ake, Susana Dzib Ek, Celene Espadas Manrique, Eduardo Chavez Sahagún, Manuela Tamayo Ruiz, Manuel Cach Pérez, José Luis Andrade Torres, Ileana Echevarría Machado & Roger Orellana Lanza
13:00	LUNCH
14:30	Elevational ranges of tropical montane epiphytes point to high sensitivity to climate change [ID:428]

Emily Heyne & Dov Sax

14:45	Can the use of CAM plants contribute to climate change adaptation in Mexico? [ID:1188] Erick De la Barrera
15:00	Mapping nitrogen pollution in a megalopolis: the case for an atmospheric CAM bromeliad [ID:1186] Edison Armando Díaz Álvarez & Erick De la Barrera
15:15	Leaf physiology and the distribution of CAM tank-epiphyte bromeliads at multiple spatial scales [ID:1184] Jamie Males & Howard Griffiths
15:30	Elevational ranges of tropical montane epiphytes point to high sensitivity to climate change [ID:428] Emily Heyne & Dov Sax
15:45	Conclusions

CELESTÚN [Venue: FA]**Exploring the fate of tropical forests under drier climates: linking mechanisms to models****Organizers:** Thomas Powell, Bradley Christoffersen & Stuart Davies

This session examines a range of empirical measurements, from plant traits and mechanisms to demographic processes, which govern drought responses of tropical forest ecosystems in order to guide Earth System Model development. Several talks present results from the 2015-2016 El Niño.

TIME	PRESENTATION
11:00	Introduction
11:15	Seasonal and El Niño changes in LiDAR-derived LAI and leaf area profiles in an Amazonian forest [ID:1134] Marielle Smith, Scott Stark, Tara Woodcock, Mauricio Ferreira, Eronaldo de Oliveira, Luciana Alves, Natalia Restrepo-Coupe, Tyeen Taylor, Michela Figueira, Luiz Aragao, Plinio B. de Camargo, Donald A. Falk, Sean M. McMahon, Travis Huxma & Scott R. Saleska
11:30	Mortality of tropical dry forest tree species following an extreme drought [ID:1133] German Vargas G., Xiangtao Xu, Christina Smith, David Medvigy, Leland Werden, Justin Becknell, Tim Brodribb, Daniel Pérez-Aviles & Jennifer Powers
11:45	Impact of the El Niño-Southern oscillation on transpiration of tropical forests [ID:1132] Charlotte Grossiord, Brad Christoffersen & Jeff Warren
12:00	Importance of individual level and fine scale traits for predicting ecosystem functioning [ID:1135] Flavia Costa, Juliana Schiatti, Rafael Oliveira, Luiza Cosme, Paulo Bittencourt, Jefferson Rodrigues De Souza, Arjen de Jong, Emma Van Baalen, Sabrina Garcia, Fernanda Barros, Eder Checa Cordoba, Marina Fagundes, Zilza Thayane Guimaraes, Mariana Hertel & Lourens Poorter
12:15	What happens when the soil-plant-atmosphere continuum breaks down in tropical trees? [ID:1137] Brett Wolfe
12:30	Modeling tropical forest responses to severe drought using a constrained terrestrial biosphere model [ID:1136] David Medvigy, German Vargas, Xiangtao Xu, Christina Smith, Justin Becknell, Timothy Brodribb & Jennifer Powers
12:45	Conclusions

UXMAL [Venue: HI]**Partners in science: Collaborating with communities, policy-makers and institutions****Organizers:** Karen A. Kainer, José Antonio Sierra-Huelsz & Anne Helen Toomey

This symposium unveils possibilities and challenges that scientists face for effective, efficient and meaningful tropical conservation partnerships with diverse stakeholders. It provides multiple perspectives, novel insights and successful strategies that can be adopted and adapted to have impacts beyond academia, influencing conservation policy and management.

TIME	PRESENTATION
11:00	Introduction
11:15	Assessing the impact of research in tropical landscapes by scientists and local actors [ID:270] Anne Toomey & María Eugenia Copa Alvaro
11:30	From rural development to community organization of the territory: A four decades experience [ID:1035] Gerardo Alatorre-Frenk, Catherine Marielle-Meyer & Pio Chavez-Segura
11:45	Who owns the question? Community directed research addressing conservation issues in Guyana [ID:1040] Matthew Hallett, Fernando Li, Howard Barnabus, Micah Davis, Joan Kenyon, Kenneth Butler, Gerard Pereira, Leroy Ignacio, Francisco Gomes, Ashley Holland, Cain Edwards, Conrad Peters, Andrew Albert, Martin Carter, Justin DeFreitas, Gerrybell Porter, Silverio Moses, Flavian Thomas, Lisa Orella, Magnus David, Jessica George & Don Melville
12:00	From the conservationist approach to biocultural territories: Changing the paradigm? [ID:1037] Andrés Camou, Ana Yesica Martínez, Jacqueline Bolaños, Vanessa Marín & Alejandro Reyes
12:15	Strategically creating spaces to integrate scientific findings into policy: A Brazilian example [ID:1036] Lucia Wadt & Karen Kainer
12:30	Creating academic environments that value and support on-the-ground transdisciplinary partnerships [ID:1039] Citlalli López Binnquist & Karen Kainer
12:45	Conclusions

TULUM [Venue: HI]**Lightning talks and networking in tropical science: ATBC-SECSCI Chapter Symposium****Organizers:** Erin Kuprewicz

This symposium will bring together tropical scientists from all disciplines and career stages to facilitate collaborations working to address the social and ecological dimensions of tropical biodiversity conservation.

TIME	PRESENTATION
11:00	Introduction
11:05	Plant population and community ecology in tropical forests [ID:1164] Saara DeWalt
11:10	Plant demography in a rapidly changing world [ID:1163] Emilio Bruna
11:15	The Interactions and Global Change Laboratory [ID:1165] Carlos Garcia-Robledo
11:20	Ecology and evolution of plant chemical diversity [ID:1160] Diego Salazar Amoretti
11:25	Evolutionary ecology of plants and species interactions [ID:1162] Susan Whitehead
11:30	Tropical plant-animal interactions in a changing world [ID:1161] Erin Kuprewicz
11:35	Conservation of frugivore-plant interactions [ID:1170] Onja Razafindratsima
11:40	Effects of cattle foraging on tropical deciduous forest plant communities [ID:1166] Carlos A. De la Rosa, Patricia Gowaty & Stephen Hubbell
11:45	Linking economic globalization to changing traditional social-ecological landscapes [ID:1169] Ted Lawrence
11:50	Tropical Herpetology and Natural History [ID:1168]
11:55	Conclusions

KABAH [Venue: HI]**New Views of Structural Complexity and Tropical Ecosystem Function**

Organizers: Lisa Patrick Bentley & Alexander Shenkin

This session presents field data collected across the tropics via novel methodology to determine if detailed information related to forest structure is necessary to understand and predict tropical forests' function.

TIME	PRESENTATION
11:00	Introduction
11:15	Tree architecture influences stem respiration: 3D models to better understand forest productivity [ID:1141] Alexander Shenkin, Martin Herold, Jose Gonzalez de Tanago, Mathias Disney, Patrick Meir, Alvaro Lau Sarmiento & Yadvinder Malhi
11:30	Ancient Amazonian populations left lasting impacts on forest structure [ID:1140] Michael Palace, Crystal McMichael, Bobby Braswell, Stephen Hagen, Mark Bush, Eduardo Neves, Eduardo Tamanaha, Christina Herrick & Steve Frolking
11:45	Measuring forest structural diversity across a degradation gradient in an Ethiopian cloud forest [ID:1138] Mathieu Decuyper, Kalkidan Mulatu, Benjamin Brede, Kim Calders, John Armston, Frans Bongers, Jan Clevers & Martin Herold
12:00	Studying lianas in the tropical forests with multiple return terrestrial LIDAR measurements [ID:1139] Sruthi Krishna Moorthy Parvathi, Stefan Schnitzer & Hans Verbeeck
12:15	Characterization of tropical forest structural change with multi-temporal Terrestrial Lidar [ID:1143] Jose Gonzalez de Tanago, Harm Bartholomeus, Martin Herold, Alexander Shenking, Marielos Peña Claros & Alvaro Lau
12:30	The sensitivity of simulated tropical forest productivity to different canopy architecture models [ID:1142] Nikolaos Fyllas, Alexander Shenkin, Cecile Girardin & Yadvinder Malhi
12:45	Conclusions

MAYA [Venue: HI]**Leaf cutter ants and forest ecosystem processes**

Organizers: Luitgard Schwendenmann & Alejandro G. Farji-Brener

The biogeochemistry of leaf cutter ant nests and its linkages with forest ecosystem processes

TIME	PRESENTATION
11:00	Introduction
11:15	Leaf-cutting ant effects on soil fertility and plant performance: a review [ID:1130] Alejandro Farji-Brener & Victoria Werenkraut
11:30	Tropical rainforest methane consumption by leaf cutter ant nests and soils under variable moisture [ID:1129] Emma Aronson, Diego Dierick, Jon Botthoff, Amanda Swanson & Michael Allen
11:45	Soil structure and CO₂ gas dynamics are affected by leaf cutter ants in a neotropical wet forest [ID:1131] Angel Santiago Fernandez Bou, Thomas Harmon, Odemaris Carrasquillo Quintana, Michael Allen, Diego Dierick, Steve Oberbauer, Philip Rundel, Luitgard Schwendenmann, Amanda Swanson & T. Jane Zelikova
12:00	Dynamics of root and mycorrhizal fungi in leaf cutter ant nests in a lowland tropical forest [ID:1126] Amanda Swanson & Michael Allen
12:15	Amount and composition of dissolved organic matter in leaf cutter ant nests [ID:1127] Luitgard Schwendenmann, Michael Meredyth-Young, Diego Dierick & Jane Zelikova
12:30	Microbial symbionts of leaf-cutting ants [ID:1128] Catalina Murillo-Cruz, Allan Artavia-León, Esteve Mesén-Porras, Miguel Pacheco-Leiva, Gabriel Monge-Navarro & Adrián Pinto-Tomás
12:45	Conclusions

ORAL SESSIONS

WEDNESDAY July 11th, 2017

YUCATÁN 3 [Venue: FA]

Tropical forests and climate change

TIME	PRESENTATION
14:30	Climate-change effects on Bryophyte carbon balances in the warm tropics: a new rainforest experiment [ID:55] Elodie Moureau, Nada Nikolic, Gerhard Zotz & Maaike Y. Bader
14:45	Climate and land use effects on carbon and nutrient cycles at Mount Kilimanjaro [ID:315] Joscha Becker, Holger Pabst, Adrian Gütlein, Anna Gunina, Michaela Dippold, Natalia Sierra Comejo, Ralf Kiese, Dietrich Hertel & Yakov Kuzyakov
15:00	Predictive potential of functional traits on the growth performance of plants under climate change [ID:344] David Schellenberger Costa, Andreas Ensslin, Andreas Hemp, Markus Fischer & Michael Kleyer
15:15	Hardest hit but most resilient: are large-seeded plants more vulnerable under global change? [ID:606] Evan Fricke, Joshua Tewksbury & Haldre Rogers
15:30	Strategies to "adapt" endangered dry tropical forest species to climate change in Mexico [ID:568] Pilar Angélica Gómez Ruiz & Roberto Lindig Cisneros
15:45	Species number of vascular plants in tropical biodiversity hotspots of China and climate change [ID:570] Sergey Venevsky

YUCATÁN 4 [Venue: FA]

Ecology, genetics, and evolution of tropical systems III

TIME	PRESENTATION
14:30	Border control: maintaining species boundaries through divergence in pollinator cues and elevation [ID:142] Daniel Souto-Vilarós, Magali Profitt, Bruno Buatois, Mentap Sisol, Martine Hossaert-McKey, Vojtech Novotny & Simon Segar
14:45	Changes in plant-pollinator interactions deplete plant progeny fitness in fragmented landscapes [ID:30] Ramiro Aguilar, Edson Jacob Cristobal Pérez, Francisco Javier Balvino Olvera, María de Jesús Aguilar Aguilar, Natalia Aguirre Acosta, Lorena Ashworth, Silvana Marten Rodriguez, Jorge Lobo Segura, Eric Fuchs & Mauricio Quesada
15:00	<i>Triplaris gardneriana</i>: a case of ambophily in the Brazilian Chaco [ID:381] Tiana Custodio, Paul Comtois & Andréa Cardoso de Araujo
15:15	High species turnover in the arthropod community of a tropical montane forest [ID:192] Michelle D'Souza & Paul Hebert
15:30	Ecological consequences of the Plio-Pleistocene extinction of Caribbean mollusks [ID:367] Catalina Pimiento, Christine Bacon, Daniele Silvestro, Austin Hendy, Alexander Zizka, Carlos Jaramillo & Alexandre Antonelli
15:45	Diversification and evolution of ecological preferences in Indo-Pacific ants [ID:512] Milan Janda, Pável Matos-Maraví, Michaela Borovanská & Jan Zima

CELESTÚN [Venue: FA]

Effects of hurricane and fire disturbances on tropical ecosystems

TIME	PRESENTATION
14:30	Mapping hurricane-related forest change in the Yucatán Peninsula with Google Earth Engine [ID:472] Jared Stapp & Jeffrey Chambers
14:45	Better resilient than resistant - Regeneration dynamics of hurricane-disturbed mangroves on Guanaja [ID:42] Thomas Fickert
15:00	Cyclones, fragmentation and bird assemblages: interactions between natural and human disturbances [ID:401] James Moloney
15:15	Structural and functional response of tropical dry forest vegetation to a high intensity hurricane [ID:469] Diana Laura Jiménez Rodríguez, Luis Daniel Avila Cabadilla, Mariana Yolotl Alvarez Añorve, Marisela Pineda Cortes & Jose Israel Flores Puerto
15:30	Understanding fire-driven forest-savanna shifts across the tropics [ID:146] Arie Staal, Egbert H. van Nes, Stijn Hantson, Milena Holmgren & Marten Scheffer
15:45	Historical fire in Amazonian forests [ID:370] Ted R. Feldpausch, Nina Koele, Klécia G. Massi, Michael Bird, Edmar A. de Oliveira, Ben Hur Marimon-Junior, Beatriz Schwantes Marimon, Oliver L. Phillips, Jordahna Haig & Carlos Quesada (and RAINFOR)

UXMAL [Venue: HI]

Ecology of plant growth

TIME	PRESENTATION
14:30	Successional habitat preference and functional traits explain tropical tree growth independently [ID:389] Svenja Kleinschmidt & Peter Hietz
14:45	Relationships of tree growth and mortality to temperature and rainfall in Hawaiian forests [ID:131] Rebecca Ostertag, Susan Cordell, Thomas Giambelluca, Christian Giardina, Robert Hamnett, Faith Inman-Narahari, Creighton Litton, Michael Nullet, lawren Sack & Adam Sibley
15:00	Relative growth rate and individual tree size in a species-rich tropical dry forest of Mexico [ID:485] Rodrigo Muñoz, Jorge A. Meave, Edgar J. González & Eduardo A. Pérez-García
15:15	On the growth rate of tropical trees [ID:422] Wilmar Lopez, Guillermo Correa, Esteban Álvarez & Ignacio del Valle
15:30	Tree ring isotopes elucidate drivers of growth variation during a trees' life span. [ID:295] Roel Brienen, Manuel Gloor, Santiago Clerici, Rob Newton, GERd Helle, Arnoud Boom, Thijs Pons, Melanie Leng & Timothy Heaton

TULUM [Venue: HI]

Diversity changes in environmental gradients

TIME	PRESENTATION
14:30	Using species distribution models to inform conservation plans for cycads in Colombia [ID:417] Cristina Lopez-Gallego
14:45	Altitudinal effect on community structure and composition ofrove beetles [ID:172] K Manoj, T.P Rajesh, U. Prashanth Ballulaya & Palatty Allesh Sinu
15:00	Testing climatic variability hypothesis in explaining elevational range distribution of moths [ID:488] Chien-Chen Huang, Shipher Wu, Sheng-Feng Shen & I-Ching Chen
15:15	The role of niche breadth in shaping species abundance across tropical dry forests in Colombia [ID:430] Natalia Norden, Maria Natalia Umaña, Gabriel Arellano, Hernando García & Roy González
15:30	Species traits explain elevational range shifts of birds [ID:243] Chi-Chun Lo & I-Ching Chen

KABAH [Venue: HI]

Ecosystem functioning in secondary and mature tropical forests

TIME	PRESENTATION
14:30	Species-level growth responses to chronic phosphorus addition in a tropical moist forest [ID:576] S. Joseph Wright, Joseph Yavitt, Kyle Harms & Benjamin Turner
14:45	Trait-based tree responses affect productivity under experimental nutrient addition in the Andes [ID:595] Selene Báez & Jürgen Homeier
15:00	Biogeography drives aboveground biomass in tropical Andes [ID:259] Sebastián González-Caro, Kenneth Feeley, Miguel Peña, Edersson Cabrera, Gustavo Galindo, Juan Phillips, Sebastian Ramirez, Adriana Yepes & Alvaro Duque
15:15	Changes in productivity and fertility along a successional gradient in Andean periurban forests [ID:423] Juan Posada, Carolina Álvarez, Nicole Morales, Carlos Sierra & Natalia Norden
15:30	The potential of secondary forests: how fast do they recover in carbon, biodiversity and traits? [ID:264] Lourens Poorter, Danaë Rozendaal & Frans Bongers
15:45	Dynamics of biomass accretion in the absence of competition in tropical successional forests [ID:377] Sergio Estrada Villegas, Stefan Schnitzer, Jefferson Hall & Michiel van breugel

MAYA [Venue: HI]

Biotic interactions in tropical ecosystems III

TIME	PRESENTATION
14:30	Mammal herbivores alter seedling traits but not diversity in a tropical forest [ID:44] Alys Granados, Henry Bernard & Jedediah Brodie,
14:45	Credit of ecological interactions: a new conceptual framework for conservation in a defaunated world [ID:58] Luísa Genes, Bruno Cid, Fernando a. S. Fernandez & Alexandra S. Pires
15:00	Integrating foliar chemistry traits with VSWIR spectra: a promising tool to assess plant defense [ID:437] Paul Fine, Diego Salazar, John Lokvam, Margaret Metz, Roberta Martin & Gregory Asner
15:15	Landscape drivers of dispersal for a tropical small mammal in coffee farms [ID:162] Beatriz Otero Jiménez, Kevin Li, John Vandermeer & Priscilla Tucker
15:30	Fruit removal by scatter-hoarding rodents of a masting palm in a fully protected Amazonian forest [ID:610] Caroline Marques Draxler & Pierre-Michel Forget
15:45	Herbivores on the edge: Effects of elevated CO₂ and temperature on a tropical vine and its beetle [ID:316] Robert Srygley, Klaus Winter & Fredric VencI

POSTERS
WEDNESDAY July 12th, 2017

POSTER BOARD	PRESENTATION
1	Effects of <i>Casuarina equisetifolia</i> invasion on understory plant cover, soil, and litter nutrients [ID:57] Ayana Curran-Howes, Jennifer Schafer, Pedram Daneshgar & Andrew Pfeiffer
2	The impact of invasive fungus (<i>Puccinia psidii</i>) on the growth of Australian rainforest Myrtaceae [ID:132] Tamara Taylor, Jacinta Zalucki, Geoff Pegg & Louise Morin
3	Invasive biocontrol harlequin ladybird (<i>Harmonia axyridis</i>) foraging rate compared to local species' [ID:300] Morelia Camacho Cervantes & Ek del Val de Gortari
4	Ecological restoration in a biological invasion: approach from the Bogotá Botanical Garden [ID:482] Korina Ocampo-Zuleta
5	Temporal dynamic of tree diversity in the context of forest management, Brazil [ID:24] Rafaela Naves, Vidar Grøtan, Edson Vidal & João Luis Batista
6	Functional traits variation of tree communities along an altitudinal gradient in Southern Brazil [ID:27] Pedro Higuchi, Vanessa Fátima Soboleski, Ana Carolina Silva & Karine Souza
7	Abstinence in tropical trees: implications for pollination and the persistence of rare species [ID:64] Andrea Pilar Drager, George Chuyong, David Kenfack, Duncan Thomas & Amy Dunham
8	Floristics and structure in a rocky outcrop cerrado [ID:65] Tatiana Cornelissen, Cássio Pereira, Fernanda Soares, Rúbia fonseca, Maria Castro, Nathália Henriques, Thais Pignataro & Ello Silva
9	Free living N₂ fixation in the Imbalance-P experiment on French Guianese pristine rainforests [ID:83] Leandro Van Langenhove, Clement stahl, Elodie Courtois, Ifigenia Urbina, Josep Peñuelas, Andreas Richter & Ivan Janssens
10	Spatial variation of photosynthesis in tropical pristine forests: saplings vs. adults [ID:84] Lore Verryckt, Clement Stahl, Sabrina Coste, David Ellsworth, Erik Verbruggen, Elodie courtois, ifigenia urbina, Sara Vicca, Josep Peñuelas & Ivan Janssens
11	Linking plant functional traits to demography in a fragmented landscape [ID:99] Rita de Cassia Quitete Portela, Sara Colmenares & Eduardo Arcoverde de Mattos
12	Synchrony between bird migration and fruit phenology during fall migration on the Yucatan peninsula [ID:115] Richard Feldman, Alfredo Dorantes Euan, Antonio Celis Murillo & Jill Deppe
13	Distribution of fruit-feeding butterflies: are ecotones a particular type of canopy? [ID:119] Giselle Martins Lourenço, Talita Palacio Santos, André Victor Lucci Freitas & Sérgio Pontes Ribeiro
14	Nitrogen dynamics in a groundwater dependent ecosystem of the Amacuzac basin [ID:126] Reyes Josue, Wehncke Elisabet, Morales-Casique eric, Prado-Pano Blanca & Mercado-Silva Norman
15	How dung beetle body condition is affected by environmental parameters in a fragmented landscape? [ID:150] Renato Portela Salomão, Daniel González-Tokman, Mario Enrique Favila, Wesley dátilo, Juan Carlos López Acosta
16	High heat tolerance in tropical alpine paramo plants [ID:153] Indira Leon & Eloisa Lasso,
17	Root anatomical adaptations to soil moisture regimes in the high Colombian Andes [ID:157] Jorge López-Cortés & Santiago Madriñán
18	A nonlinear dynamics perspective to agro-ecological transitions [ID:177] Theresa Ong & John Vandermeer
19	Estimating tropical forest structure using a terrestrial lidar [ID:195] Michael Palace, Franklin Sullivan & Mark Ducey
20	Effect of tree diversity on yield in traditional cocoa agroforests in Brazil [ID:212] Lauranne Gateau, Edmund V. J. Tanner, Bruno Rapidel & Jean-Philippe Marelli
21	In search of synergies for the knowledge and protection of Cerrado biodiversity [ID:215] Letícia Sena, Geraldo W. Fernandes & Jessica Silveira

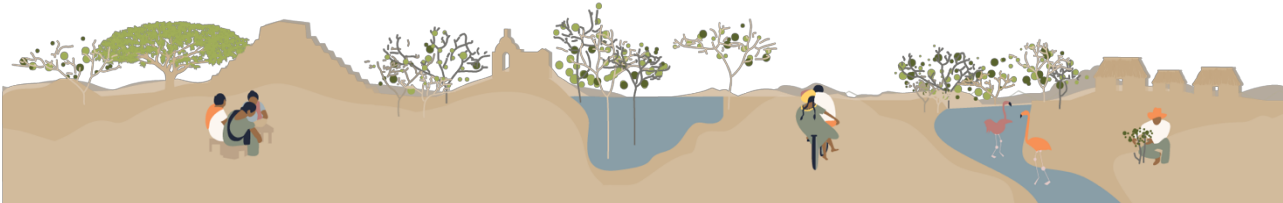
22	Evolutionary constraints on herbivore communities in coffee agroecosystems: a global analysis [ID:219] Zachary Hajian-Forooshani
23	Niche overlapping and ratio between realized and potential niches of common atmospheric bromeliads [ID:231] Cleber Juliano Neves Chaves, maurício Humberto Vancine, Davi Rodrigo Rossatto & Thadeu Sobral-Souza
24	The phylogenetic structure of the Yucatan sand dune community: insights into assembly process [ID:241] Diego Angulo, Juan Tun, Gerardo Arceo, Miguel Munguía & Víctor Parra
25	Influence of multiple drivers that influence the structure of dry forests in BRT, India [ID:279] Sachin MH, Rengaiyan Ganesan, Ganesh T., Soubadra Devy M. & Snehalatha V.
26	Impacts of quality of leaf-litter on ant assemblages in shade-grown coffee in Chiapas, Mexico [ID:280] Bolívar Aponte-Rolón, Ivette Perfecto & John Vandermeer
27	Relative importance of tree diversity, size and competition in growth in a primary tropical forest [ID:293] Martin Svátek, Radim Hédli, Martin Dančák, Michal Hroneš, Jakub Kvasnica, Markéta Chudomelová, Rahayu Sukmaria Sukri, Faizah Metali & Radim Matula
28	Super typhoons offer an opportunity for Japanese mangrove forest to regain the ecological niche? [ID:307] Shin Watanabe, Shoichiro Uchiyama & Toyohiko Miyagi
29	Soils and tree cover in rangelands in La Sepultura Biosphere Reserve, Chiapas, Mexico [ID:312] Alejandra Hernández Guzmán, Lijbert Brussaard, Luis García Barrios, John Larsen & Lourens Poorter
30	Soil carbon losses and erosion in riparian soils after land use change on Sumatra/Indonesia [ID:325] Nina Hennings, Thomas Guillaume & Yakov Kuzyakov
31	What drives diversity of frugivorous birds along environmental gradients? [ID:331] Maximilian Vollstaedt, Matthias Schleuning, Andreas Hemp, Kim Howell, Eike-Lena Neuschulz, Marta Quitian, Vinicio Santillan, Katrin Böhning-Gaese & Susanne Fritz
32	Bromeliad size predicts litter capture and influences community in a tropical forest fragment [ID:339] Ello Brasil Silva, Thais Pignataro, Nayara Reis, Kênia Santos, Nathalia Mello, Maria Gabriela Boaventura, Cassio Cardoso, Amanda Fialho, Letícia Vieira & Tatiana Cornelissen
33	Liana diversity and composition track the tree community on the island of Dominica, West Indies [ID:350] Saara DeWalt & Kalan Ickes
34	Functional trait variation of stress-tolerant Rhododendron species along elevation gradients [ID:353] Melissa Whitman & Sabrina Russo
35	Fire regime, vegetation and microclimate interactions in Brazilian Savanna: process based model [ID:354] Leticia Gomes, Britaldo Soares-Filho, Heloisa Miranda & Mercedes Bustamante
36	Belowground carbon fluxes on Mount Kilimanjaro: effect of an elevational gradient on fine roots [ID:358] Natalia Sierra Cornejo & Dietrich Hertel
37	Effects of tree species diversity and genotypic on growth and aboveground biomass in an plantation [ID:366] Maybeth del Rosario Mendoza-Espinosa, Víctor Parra-Tabla & Luis Abdala-Roberts
38	Functional trait variation in cacao agroecosystems: influence of local conditions and cultivars [ID:374] Adam K. Dickinson, Adam R. Martin, Wilbert Phillips Mora, Eduardo Somarriba Chavez, Marie-Soleil Turmel & Marney E. Isaac
39	Spatial and temporal distribution of reproductive resources in precipitation gradient in Dry Forest [ID:386] Marcia Fortunato, Marcelo Tabarelli, Natan Almeida, Isabel Machado
40	Anthropogenic disturbance causes a proliferation of leaf-cutting ants in Brazilian Caatinga [ID:387] José Domingos Ribeiro Neto, Felipe Fernando Silva Siqueira, Marcelo Tabarelli, Alan Neil Andersen, Rainer Mathias Wirth & Inara Roberta Leal
41	Seed and saplings banks in a tropical montane forest of Mexico: comparing oak and beech forests [ID:390] Karina Calva-Soto, Numa P. Pavón, Arturo Sánchez-González & Neptalí Ramírez-Marcial
42	Effects of canopy tree species on seedlings in the understory [ID:393] Diego Sotto Podadera, Deivid Lopes Machado & Flavio Antonio Maës dos Santos
43	Intra- and interspecific variation in tropical tree phenology derived from Unmanned Aerial Vehicles [ID:427] Stephanie Bohlman, Sami Rifai, Helene Muller-Landau & Jonathan Dandois
44	Cotyledon type predicts tropical tree seedling growth survival tradeoff [ID:444] Margaret Metz & Nancy Garwood
45	Sex-specific patterns of phyllostomid bats in a human dominated landscape [ID:448]

Erika de la Peña-Cuéllar & Julieta Benítez-Malvido

46	Functional properties of early successional stages of Tropical Dry Forests [ID:480] Marisela Pineda Cortés, Mariana Yolotl Álvarez Añorve, Luis Daniel Avila Cabadilla, Ireni Suazo-Ortuño & Sharon P. Morales Díaz
47	Lianas reduce community-level canopy tree reproduction in a Panamanian forest [ID:497] Maria Muriel Garcia, Laura Martínez Izquierdo, Felipe Nery Arantes Mello, Jennifer S. Powers & Stefan A. Schnitzer
48	Land cover change in a Natural Protect Area in the Yucatan peninsula, Mexico [ID:504] Eloisa Rangel-Rivera, Celene Espadas-Manrique, Filippo Aureli & Gabriel Ramos-Fernández
49	Can owl pellets be an important input of nutrients and influence the vegetation dynamic? [ID:505] Laura Riba-Hernández & Simone Vieira
50	Thermal safety of tropical terrestrial insects [ID:509] Israel Valencia-Esquivel & Marcela Osorio-Beristain
51	Effects of environmental filters on oaks communities in a temperate forest in Jalisco, Mexico [ID:510] Maribel Arenas-Navarro, Alberto Pérez-Pedraza, Gabriel López-Segoviano, Rafael Aguilar-Romero, Cesar Torres-Miranda, Felipe Garcia-Oliva & Ken Oyama
52	The role of the amacuzac river as a seed dispersal agent in the tropical dry forest [ID:529] Ahlem Esper, Elisabet Wehncke & Raúl Alcalá
53	Seasonal and successional patterns of litterfall production in a deciduous tropical dry forest [ID:545] Astrid Helena Huechacona Ruiz, Juan Manuel Dupuy Rada, José Luis Hernandez Stefanoni, Juan Pablo Caamal Sosa & Filogonio May Pat
54	A simple simulation model of species succession on local and landscape scale [ID:553] Evan Asava Aree, Haoran Cheng, Maurice Cheung & Michiel van Breugel
55	Soil temperature influences soil CO₂ efflux only during an early dry season in a dry tropical forest [ID:591] Fernando Arellano-Martin, José Luis Andrade, Juan Manuel Dupuy, Rodrigo Vargas, Roberth Armando Us-Santamaría & José Luis Simá-Gómez
56	What frequently literature used estimators temporally change? [ID:599] Lais Maia, Filipe França, Andre Nascimento & Lucas Del Bianco Faria
57	Patterns of vegetation recovery in secondary forests depend on the ecological measure and soil type [ID:608] Claudia Pandolfo Paz, David Tng, Miriam Goosem & Susan Laurance
58	"Dean" hurricane effect over the forestall species in the tropical forest of Quintana Roo, Mexico [ID:615] Ismael Pat-Aké, Luisa del Carmen Camara-Cabrales, Jose Luis Martinez-Sanchez, Sheila Ward, Patricia Negreiros-Castillo, Pablo Martinez-Zurimendi & Ivan Oros-Ortega
59	Macroecological patterns of leaf size, shape, and function in the cerrado [ID:618] Simon Queenborough & Megan Sullivan
60	Riparian dry forests for the diversity of dung beetles in a cattle landscape of Cordoba, Colombia [ID:620] Antony Tuberquia, Roger Ayazo, Leydis Murillo & Juan Linares
61	Responses of Tropical Dry Forest trees to dry spells: an analysis between functional strategies [ID:624] Flor Lizeth Vega Ramos & Horacio Paz
62	A comprehensive assessment of Hach Winik Maya milpa provisioning ecosystem services [ID:49] Tomasz Falkowski, Stewart Diemont, Adolfo Chankin & Robert Pedian
63	Ecological and socio-economic impacts of the dam breach in Mariana, Brazil [ID:127] Cecília Guimarães Loureiro, Geraldo Wilson Fernandes, Fernando F. Goulart, Bernardo D. Ranieri, Marcel S. Coelho, Kirsten Dales, Nina Boesche, Mercedes Bustamante, Felipe A. Carvalho & Daniel C. Carvalho
64	Litter decomposition rates in tropical alpine paramos in response to experimental warming. [ID:152] Paola Matheus & Eloisa Lasso
65	Ecosystem services neglected by the biggest environmental disaster in Brazil [ID:214] Jessica Silveira, Ana Neves, Flávia Nunes, Felipe Carvalho, Geraldo W. Fernandes, Cecília Loureiro & Leticia Sena
66	Cattle and forests: understanding social-ecological systems for the provision of ecosystem services [ID:314] Alan Heinze, Frans Bongers, Luis Garcia Barrios, Thomas Kuyper & Neptali Ramírez Marcial
67	Influence of vegetation density on the transmission and infection severity of coffee leaf rust [ID:525] Minh Chau Ho & John Vandermeer
68	Divergent values of avian ecosystem services across forest-matrix interface in fragmented landscapes [ID:543] Fabio Barros, Carlos Peres & Milton Ribeiro

Thursday

July 13th, 2017



TIME		SITE		THURSDAY July 13th, 2017	
8:00-9:00	Welcome desk (FA)	REGISTRATION			
9:00-10:30	Yucatán 1 & Yucatán 2 (FA)	[PS] Debate Are trade and hunting bans on endangered tropical species a "perfect storm" for poaching or an effective conservation strategy Annecoos Wiersema & Duan Biggs			
10:30-11:00	Corridors of FA & HI	COFFEE BREAK			
11:00-13:00	Yucatán 1 (FA)	[SYMP] The dry tropics: vulnerability and resilience			
	Yucatán 2 (FA)	[SYMP] Ecological drivers of succession in human-modified landscapes, from local to meta-communities			
	Yucatán 3 (FA)	[OS] Biotic interactions in tropical ecosystems IV			
	Yucatán 4 (FA)	[OS] Tree and liana responses to drought and other factors			
	Mérida (FA)	[OS] Biodiversity inventories in tropical ecosystems II			
	Celestún (FA)	[OS] Ecology and conservation of tropical vertebrates			
	Uxmal (HI)	[OS] Structure, function, and dynamics of tropical ecosystems			
	Tulum (HI)	[OS] Fragmentation effects on ecology of plants and animals			
	Kabah (HI)	[OS] Ecosystem services and tropical systems			
	Maya (HI)	[OS] Social and economical drivers of tropical ecosystem change			
13:00-14:30	Restaurants of FA & HI	LUNCH			
	San Jacinto (HI)	[SE] Workshop- Conservation in practice*			
14:30-16:00	Yucatán 1 (FA)	[SYMP] The dry tropics: vulnerability and resilience			
	Yucatán 2 (FA)	[OS] Functional diversity and functional traits in tropical systems			
	Yucatán 3 (FA)	[OS] Tropical forest dynamics and functioning			
	Yucatán 4 (FA)	[OS] Morphological, physiological and structural traits of tropical forest plants: from leaves to forest canopy			
	Mérida (FA)	[OS] Ecology of tropical secondary forests			
	Celestún (FA)	[OS] Population and community dynamics			
	Uxmal (HI)	[OS] Biological and social bases for sustainable use of non timber forest products			
	Tulum (HI)	[OS] Conservation initiatives and tropical biology research			
	Kabah (HI)	[OS] Human development and tropical ecosystems			
	Maya (HI)	[OS] Coral and other aquatic systems			
	CIS (FA)	[SE] Workshop: How to publish in high quality scientific journals			
16:00-17:00	Corridors of Holiday Inn	COFFEE BREAK & POSTERS			
	Uxmal (HI)	Audiovisual session			
	Tulum (HI)	Audiovisual session			
17:10-18:10	Yucatán 1 & Yucatán 2 (FA)	[PS] Keynote lecture conservation Medicine and One Health: Addressing the Changing Threats of Disease Emergence, Globalization and Climate Change to Tropical Biodiversity Alonso Aguirre			
18:10 - 19:40	Yucatán 2 (FA)	[PS] Closing ceremony, The Merida Declaration			
20:30	Quinta Montes Molina	ATBC Banquet			

(FA): Fiesta Americana Hotel (HI): Holiday Inn Hotel

[PS]: Plenary session

[SYMP]: Symposium

[OS]: Oral session

[SE]: Side event

[SC]: Scientific Café

*The lunch will be served in these sessions

SYMPOSIA

THURSDAY July 13th, 2017

YUCATÁN 1 [Venue: FA]

The dry tropics: vulnerability and resilience

Organizers: Julieta Benitez-Malvido & Ileri Suazo-Ortuño

Ecology, diversity and function of ecosystems in the dry tropics.

TIME	PRESENTATION
11:00	Introduction
11:15	The dry tropics: state of the art [ID:1232] Julieta Benitez-Malvido, Ileri Suazo-Ortuño, Javier Alvarado & Juan Manuel Lobato
11:30	Tropical dry forests and global environmental change [ID:1230] Jennifer Powers
11:45	Vulnerability of the tropical dry forest vegetation to high intensity hurricanes [ID:1239] Mariana Yolotl Álvarez Añorve, Luis Daniel Ávila Cabadilla, Diana Laura Rodríguez Jiménez, Luz Elena Azcoytia Escalona, Marisela Pineda Cortés & José Israel Flores Puerto
12:00	Ecological studies on grazing exclusion and secondary succession of a Mexican tropical dry forest [ID:1236] Leonel López-Toledo, Abdieel Quisehuatl-Medina, Noe Hernández-Cornejo, Perla García-Ramírez & Bryan Endress
12:15	Potential drivers influencing neotropical vertebrate communities in anthropogenic landscapes [ID:1238] Luis Daniel Ávila Cabadilla, Mariana Yolotl Álvarez-Añorve, Julieta Benitez Malvido, Ileri Suazo-Ortuño, Javier Alvarado-Díaz, Juan Manuel Lobato, Yesenia Fraga-Ramírez, Sharon Morales-Días, Sole Ruiz-García, Mayra Zamora Espinoza, Sergio Amador Hernández, Segio Martínez Ferreira, Diana Nieves Rocha & Alberto Ken Oyama Nakagawa
12:30	Recovery of the species composition in a tropical dry forest: are species coming back? [ID:1235] Jorge A. Meave, Eduardo A. Pérez-García, Edwin Lebrija-Trejos, Frans Bongers, Rodrigo Muñoz, I. Eunice Romero-Pérez, Moisés Enríquez-Vargas & Marco A. Romero-Romero
12:45	Savanna post-fire trophic resource supply to pollinators and seed-dispersing frugivores [ID:1237] Elza Guimarães, Priscila Tunes, Vinicius Alves, Adriano Valentin-Silva & Marco Batalha
13:00	LUNCH
14:30	Restoring biotic interactions after anthropogenic disturbances in a tropical dry forest [ID:1231] Ek Del-Val, Karina Boege, Lizeth Solis & Wendy Mendoza
14:45	Assessing the effects of a dry forest restoration project using dung beetles as a focal taxon [ID:1228] Sofía Gámez-Yáñez, Ellen Andresen, Francisco Mora, Ek Del-Val & Lucrecia Arellano
15:00	Ecological restoration of arid lands: new methods from Caatinga vegetation [ID:1234] Gislene Ganade
15:15	Soil-plowing and liana removal as restoration tools for old-fields [ID:1233] Moisés Méndez-Toribio & Julieta Benitez-Malvido
15:30	Resilience of soil properties to land-use change in a tropical dry forest ecosystem [ID:1229] Francisco Mora, Bárbara Ayala-Orozco, Mayra Gavito, Ilyas Siddique, Patricia Balvanera, Víctor Jaramillo, Helena Cotler, Luz Piedad Romero-Duque & Enrique Martínez-Meyer
15:45	Conclusions

YUCATÁN 2 [Venue: FA]**Ecological drivers of succession in human-modified landscapes, from local to meta-communities****Organizers: Michel van Bruegel & Miguel Martínez-Ramos**

From theoretical and empirical approaches this symposium will review major ecological drivers affecting tropical forest succession in human modified landscapes using case studies from the Neotropical dry and wet forests.

TIME	PRESENTATION
11:00	Introduction
11:15	Climate as a driver of large-scale community composition [ID:1106] Jorge Soberón
11:30	The role of dispersal limitation and species differences in local and landscape scale succession [ID:1105] Michiel van Breugel, Maurice Cheung, Haoran Chen, Evan Asava Aree & Jefferson Hall
11:45	Opposing mechanisms limit taxonomic convergence in Neotropical secondary forests [ID:1104] Natalia Norden, Vanessa Boukili, Anne Chao, K.H. Ma, Susan Letcher & Robin Chazdon
12:00	The role of land use in driving successional pathways in Amazonia [ID:1103] Catarina Jakovac, Rita Mesquita, Paulo Massoca, Tony Vizcarra, Bruce Williamson, Marielos Peña-Claros, Thom Kuyper & Frans Bongers
12:15	Understanding the reestablishment of plant-herbivore networks in secondary tropical dry forests [ID:1102] Ek Del Val & Karina Boege
12:30	Tree species replacement during old-field succession in a Neotropical agro-forest landscape [ID:1243] Miguel Martínez-Ramos, Frans Bongers & Michiel van Breugel
12:45	Conclusions

ORAL SESSIONS

THURSDAY July 12th, 2017

YUCATÁN 3 [Venue: FA]

Biotic interactions in tropical ecosystems IV

TIME	PRESENTATION
11:00	Insect herbivory in an altered tropical landscape [ID:116] Roger Kitching, Sarah Maunsell, Lois Kinneen, Jane Hardwick, Nigel Stork, Tom Fayle & Kalsum Yusef
11:15	Herbivore pressure in <i>Piper trigonum</i> (Piperaceae) in a Costa Rican lowland wet forest [ID:560] Robert Marquis
11:30	Forest metabolomics reveals sources of chemical diversity in temperate and tropical tree communities [ID:91] Brian Sedio, John Parker & Joseph Wright
11:45	Adaptative value of ontogenetic changes in plant defense [ID:363] Sofia Ochoa-López & Karina Boege
12:00	Edges as compass: equator-facing edges raise drought stress in plants and leaf-cutter ant abundance [ID:210] José Domingos Ribeiro Neto, Jônatas Silva, Isabelle Silva, Rainer Wirth & Inara Leal
12:15	Effects of phytochemical diversity on insect performance [ID:309] Susan Whitehead, Ethan Bass, andre Kessler & Katja Poveda
12:30	Tropical forests (TF) do not offers less food than anthropic habitats to blood-sucking bugs [ID:619] Carlos Ibarra-Cerdeña, Adriana Gonzalez-Martinez & Raul Chan
12:45	Assessing the relationship between herbivore community betadiversity and plant chemical diversity [ID:409] Diego Salazar Amoretti, John Lokvam, Fabricio Baccaro, Italo Mesones Acuy, Magno Vasquez Pilco, Jacqueline Ayarza Zuñiga, Emerson Merkel, Marcelle Sanches, Carlos Nogueira & Paul V. A. Fine

YUCATÁN 4 [Venue: FA]

Tree and liana responses to drought and other factors

TIME	PRESENTATION
11:00	Drought effects in Amazon-to-Andean forest [ID:154] William Farfan-Rios, Miles Silman, Alexander Shenkin, Yadvinder Malhi & Kathryn Clark
11:15	Amazonian forest responses to extreme drought from rapid hydraulic failure in a trait-based model [ID:277] Sami Rifai, Nikolaos Fyllas, Lucy Rowland, Antonio Carlos Lola da Costa, Leandro Ferreira, Sophie Fauset, Michelle Johnson, Emanuel Gloor, Patrick Meir & Yadvinder Malhi
11:30	Isoprene emission structures tropical tree biogeography and community assembly responses to climate [ID:305] Tyeen Taylor, Sean McMahon, Marielle Smith, Cyrille Violle, Joost van Haren, Irena simova, Plinio de camargo, Leandro Ferreira, Antonio da Costa, Patrick Meir, Brad Boyle, Brian Enquist, Scott R. Saleska
11:45	Individual and ecosystem scale responses to El Niño drought in an eastern Amazon forest [ID:518] Scott R. Saleska, Natalia Restrepo-Coupe, Mauro Brum, Neill Prohaska, Deliane Penha, Marielle N. Smith, Scott C. Stark, Luciana F. Alves, Edgard Tribuzy, Luiz E. O. C. Aragao, Plinio B. de Camargo, Raimundo C. de Oliveira, Valeriy Ivanov, Rafael S. Oliveira
12:00	Intraspecific variation of drought resistance traits along a strong rainfall gradient in Panama [ID:495] Bettina Engelbrecht, Eric Manzane, Leonor Alvarez Cansino, Andrew Jones & Liza Comita
12:15	Drought vulnerability of Neotropical canopy trees and lianas [ID:999] Louis Santiago
12:30	El Niño drought favors tropical liana growth over trees [ID:335] Stefan Schnitzer
12:45	What determines the abundance and impact of lianas? [ID:288] Helene C. Muller-Landau & Stephen W. Pacala

MERIDA [Venue: FA]**Biodiversity inventories in tropical ecosystems II**

TIME	PRESENTATION
11:00	Novel solutions to advance taxonomy and systematics of aquatic insects in Central America [ID:164] Carlos L. de la Rosa
11:15	Serranias del Guaviare, Colombia: rapid inventory, conservation, campesinos, and peace process [ID:143] Corine Vriesendorp, Alejandra Salazar, Diana Alvira, Lesley de Souza, Arelis Arciniegas & Pablo Rodriguez
11:30	Bat monitoring in Cusuco, Honduras: acoustic and capture comparisons [ID:365] Kevina Vulinec & Pamela Thompson
11:45	Biodiversity monitoring in the Calakmul Biosphere Reserve [ID:611] Kathy Slater, Jose Barão-Nóbrega, Antonio Lopez Cen, David Sima Panti & Caroline Acton
12:00	Biodiversity threats in the Asian tropics [ID:117] Alice Hughes
12:15	Tree diversity along elevation and forest-use intensity gradients in central Veracruz, Mexico. [ID:357] M. Leticia Monge-González, Felix Heitkamp, Gonzalo Castillo-Campos, Alejandro Hernández-Sánchez, Holger Kreft & Thorsten Krömer
12:30	Novel solutions to advance taxonomy and systematics of aquatic insects in Central America [ID:164] Carlos L. de la Rosa
12:45	New Amanita species: implications for shared biogeographic history between Africa and South America [ID:392] Kennan Mighell, M. Catherine Aime, Bryn Dentinger & Terry Henkel

CELESTÚN [Venue: FA]**Ecology and conservation of tropical vertebrates**

TIME	PRESENTATION
11:00	The history of salamanders from Volcan Nahcampatepetl, Veracruz, Mexico [ID:600] Angel Fernando Soto & Gabriela Parra
11:15	Assemblages of amphibians and reptiles in rustic cocoa plantations in southeast Mexico [ID:77] Martín de Jesús Cervantes-López, Ellen Andresen, Omar Hernández-Ordóñez, Víctor Arroyo-Rodríguez, Víctor Hugo Reynoso Rosales & Francisco Mora Ardila
11:30	Acute toxicity variation of Chlorothalonil across multiple genera of tropical amphibians [ID:473] Gabrielle Maltaverne
11:45	Corridors for tapirs in the Sierra Madre de Chiapas: a model based in a community monitoring program [ID:566] J. Antonio de La Torre, Marina Rivero, Gamaliel Camacho & Luis Arturo Alvarez Márquez
12:00	Assemblage of wild felines in a structural corridor in the northeastern of Antioquia, Colombia [ID:72] Joan Gaston Zamora-Abrego, Ana Cristina Fernández-Salazar & Orly Marcela Vargas-Pérez
12:15	Survival of jaguar and puma living in their ecological limits can be influenced by sampling area [ID:391] Samuel Astete, Jader Marinho-Filho, Gabriel Penido, Rahel Sollmann, Priscilla Zangrandi, Natália Tórres, Anah Tereza Jácomo & Leandro Silveira
12:30	Large avian frugivores: A pantropical comparison of their diversity, seed dispersal and conservation [ID:519] Olivier Boissier

UXMAL [Venue: HI]

Structure, function, and dynamics of tropical ecosystems

TIME	PRESENTATION
11:00	Seasonal and behavioral influences on diets of tropical ant communities in coffee agriculture [ID:457] Katherine Ennis & Stacy Philpott
11:15	More than just species! Tribute to arthropod functional ecology [ID:249] Greg Lamarre, Christopher Baraloto, Yves Basset, Simon Segar, Bruno Herault & Vojtech Novotny
11:30	Findings from a towering orogeny: insect community structure across <i>Ficus</i> in Papua New Guinea [ID:184] Simon Segar, Martin Volf, Daniel Souto-Vilaros, Legi Sam, Katka Sam, Jan Michalek, Jan Zima, Petr Šimek, Martin Moos, Vojtech Novotny, Brus Isua, Mentap Sisol, Thomas Kuyaiva, Gibson Aubona, Juha-Pekka Salminen, James M Cook, Jadranka Rota, George D Weiblen, Gortner Avenue, Stewart Wossa & Scott E Miller
11:45	What factors drive leafcutter bees' plant preference for leaf foraging? [ID:201] Palatty Allesh Sinu & Judith Bronstein
12:00	High degree of fission-fusion dynamics affords spider monkeys effective flexible adjustments [ID:187] Filippo Aureli, Colleen M. S & Gabriel Ramos-Fernandez
12:15	Identifying the landscape sizes that best predict primate responses to landscape structure [ID:349] Carmen Galán-Acedo & Víctor Arroyo-Rodríguez
12:30	Evidence of niche divergence among coexisting species in temperate and tropical forests [ID:102] Oscar Valverde-Barrantes, Christopher Baraloto, Christopher Blackwood & Alberto Quesada
12:45	Environmental drivers of tree species richness and tree functional diversity in Andean forests [ID:102] Jürgen Homeier, Jaime Peña, Nixon Cumbicus, Johanna Lindemann & Philipp Obst

TULUM [Venue: HI]

Fragmentation effects on ecology of plants and animals

TIME	PRESENTATION
11:00	Use of corridors and fragmented landscapes by white lipped peccaries in French Guiana [ID:39] Cecile Richard-Hansen, Rachel Berzins, Matthijs petit, Bertrand Goguillon, Ondine Rux & Luc Clément
11:15	Understanding land-cover change and its impact on biodiversity in a fragmented landscape in Ecuador [ID:193] Xavier Haro Carrion & Jane Southworth
11:30	Forest fragmentation effects on vertebrate seed predators and rates of post-dispersal seed predation [ID:256] Gary Palmer, Carla Catterall & Jacinta Zalucki
11:45	Rodent abundance in fragmented rainforest landscapes: testing the rodentization hypothesis [ID:383] Norma Arce-Peña, Víctor Arroyo-Rodríguez, Miriam San-José & Iván Franch-Pardo
12:00	Assessing the importance of landscape configuration and scale in determining large cat predation [ID:337] Lou Lecuyer, Sophie Calmé, Rehema White & Birgit Schmook
12:15	Effect of landscape structure on the density of a tropical palm in a fragmented biodiversity hotspot [ID:466] Manuel Alejandro Hernández Ruedas, Víctor Arroyo Rodríguez, Jorge Arturo Meave del Castillo & Miguel Martínez-Ramos

KABAH [Venue: HI]

Ecosystem services and tropical systems

TIME	PRESENTATION
11:00	Frugivory and seed dispersal by birds provides an ecosystem service [ID:74] Monika Egerer, Evan fricke & Haldre rogers,
11:15	Ecosystem service production is decoupled from native forest cover in novel pasture ecosystems [ID:112] Viviana Alarcón, Elizabeth Nichols, Renata Pardini & Jean Paul Metzger
11:30	Frugivory by mammals in continuous areas of Atlantic Forest, Brazil [ID:272]

Daiane Cristina Carreira, Kátia Maria P.M.B Ferraz & Mauro Galetti

11:45	Multi-scale effects on biodiversity and ecosystems services provision in coffee plantations [ID:394] Jean Paul Metzger, Felipe Librán-Embidi, Fernanda Saturni, Natalia Aristizabal, Adrian González, Andrea Larissa Boesing, Carolina Montealegre & Camila Hohlenweger
12:00	Alternative views of payment for ecosystem service schemes: an example from Guatemala [ID:503] Barbara Vallarino, Annie Spaulding, David Kramer, Riley Hunter & Fernando Recancoj
12:15	Pollination services to <i>Cucurbita moschata</i> crops during contrasting seasons in tropical dry forest [ID:461] Oliverio Delgado-Carrillo, Martha Lopezaraiza-Mikel, Gumersindo Sanchez-Montoya & Mauricio Quesada
12:30	Primate-mediated ecosystem services: Implications for human reliance on forest resources in Nigeria [ID:559] Edu Effiom, Agnes Andersson-Djurfeldt, Magnus Jirstrom & Ola Olsson
12:45	Canopy connectivity increases ant-provided biocontrol services in a tropical agroforest [ID:375] Esteli Jimenez-Soto, Jonathan Morris, Deborah letourneau & Stacy Philpott

MAYA [Venue: HI]

Social and economical drivers of tropical ecosystem change

TIME	PRESENTATION
11:00	Rethinking conservation: linking economic globalization to changing traditional landscapes [ID:111] Ted Lawrence, Steve Morreale, Richard Stedman & Sarah Taylor
11:15	Intensive cultivation of fertile soils does not reduce the area used for shifting cultivation [ID:136] André Junqueira, Tjeerd-jan Stomph, Charles Clement, Paul Ingenbleek & Paul Struik
11:30	Socio-economics, efficiency and environmental impact of charcoal producers in a Mexican Watershed [ID:352] Lucía Pérez Volkow, Tuyeni Heita Mwampamba & Adrián Ghilardi
11:45	Values from social and ecological landscape attributes: understanding famers management decisions [ID:406] Ana Sofía Monroy Sais, Eduardo García frapolli, Margaret Skutsch, Peter Gerritsen & Alejandro Casas
12:00	A tool for social linkage of biosphere reserves: the case of wildlife use in Southern Mexico [ID:296] Malena Oliva & Salvador Montiel
12:15	Introducing the ecological sensitivity within human realities conceptual approach and frame [ID:523] Melissa Vogt

YUCATÁN 2 [Venue: FA]

Functional diversity and functional traits in tropical systems

TIME	PRESENTATION
14:30	Patch Size and connectivity effects on the functional diversity of mammals in the Atlantic forest [ID:88] Marcelo Magioli & Katia Maria Paschoaletto Micchi de Barros Ferraz
14:45	Bat functional diversity and trait filtering in a tropical agricultural landscape of Southern Mexico [ID:434] Erika de la Peña-Cuellar, Gabriela Rodríguez-Barrera, John D. Altringham & Julieta Benitez-Malvido
15:00	Effects of climate and human disturbance on avian functional diversity are mediated by plant traits [ID:139] Maximilian Vollstaedt, Stefan Ferger, Andreas Hemp, Kim Howell, Till Toepfer, Katrin Böhning-Gaese & Matthias Schleuning
15:15	Functional traits along a shade and fertility gradient in coffee agroforestry systems [ID:308] Serra Willow Buchanan, Karel Van Den Meersche, Adam Martin & Marney Isaac
15:30	Functional diversity in the agricultural frontier: balance between conservation and agriculture [ID:379] Laura Cedillo, Aline Pingarroni, Madelon Lohbeck & Miguel Martínez-Ramos
15:45	Soil C stocks in a tropical forest are correlated with altitude, soil and vegetation functional traits [ID:630] Karem Del Castillo, Bryan Finegan, Victor Jaramillo Luque & Ney Rios

YUCATÁN 3 [Venue: FA]

Tropical forest dynamics and functioning

TIME	PRESENTATION
14:30	Dynamics of lignin-degrader communities in a dry seasonal tropical forest [ID:202] Louise Egerton-Warburton, Jessica Ross & Benjamin Morgan
14:45	Impacts of fragmentation on dipterocarp rainforests of Borneo [ID:536] Jane Hill, Yeong Kok Loong & Jennifer Lucey
15:00	Floodplains as an Achilles' heel of Amazonian forest resilience [ID:282] Bernardo Flores, Milena Holmgren, Chi Xu, Egbert van Nes, Catarina Jakovac, Rita Mesquita & Marten Scheffer
15:15	Biodiversity-mediated versus direct effects of environmental change on ecosystem function [ID:71] Viviane Dib, Aliny Pires & Vinicius farjalla,
15:30	Global sensitivity and uncertainty analysis of forest carbon estimates in Southwestern Amazonia [ID:550] N. Galia Selaya, Rafael Munoz Carpena, Stephen Perz, Oliver Phillips, Christopher Baraloto & Yogesh Khare
15:45	Mitigation of greenhouse gas flows in tropical savanna in Brazil [ID:224] Fabiana Campos Ribeiro, Alexsandra Duarte de Oliveira, Alcides Gatto & Diana Regazzi Zuim

YUCATÁN 4 [Venue: FA]

Morphological, physiological and structural traits of tropical forest plants: from leaves to forest canopy

TIME	PRESENTATION
14:30	Valid V_{cmax} estimate can be derived using either C_i or C_c in tropical and temperate trees [ID:240] Nur Bahar, Owen Atkin & John Evans
14:45	Dissecting leaf habit, photosynthesis and leaf life span in seasonally dry tropical forest trees [ID:113] Marco Gutiérrez-Soto, Cristina Chinchilla-Soto, Noel M. Holbrook & Timothy J. Brodribb
15:00	Architecture of the leaf: venation and shape dynamics in tropical forests [ID:269] Aqne Gvozdevaite, Imma Oliveras, Benjamin Blonder, David Martini & Yadvinder Malhi
15:15	Physiological performance of tropical trees in current and future temperature regimes [ID:286] Martijn Slot & Klaus Winter

MERIDA [Venue: FA]

Ecology of tropical secondary forests

TIME	PRESENTATION
14:30	How humans structure Amazonian secondary forests in Atacapi, province of Napo, Ecuador? [ID:213] Edgardo I. Garrido-Perez, David Tella-Ruiz, Jamil Rojas-Salvatierra & Katia Laura Sidali
14:45	Land-use dynamics influence carbon sequestration potential in tropical second-growth forest [ID:373] Naomi Schwartz, Maria Uriarte, Ruth DeFries, Victor Gutierrez-Velez & Miguel Pinedo-Vasquez
15:00	Rainfall interception by secondary forests on abandoned pastures in northwestern Costa Rica [ID:217] Luis Utrera, Bryan Finegan, Diego Delgado, Zayra Ramos, Adina Chain-Guadarrama & Samuel Alvarez, Ademar Molina
15:15	Tree recruitment life-stage determines regeneration potential in tropical pastures: a meta-analysis [ID:517] Crystal Guzman
15:30	Does response diversity influence resilience to extreme events in secondary successional forests? [ID:998] Radika Baskar
15:45	Natural regeneration of valuable timber species after three different clearing treatments in forests [ID:378] Laura Snook, Raimondo Capitano

CELESTÚN [Venue: FA]

Population and community dynamics

TIME	PRESENTATION
14:30	Effects of changing rainfall patterns on tropical forest biomass and mortality [ID:411] Thomas Powell, Lara Kueppers, Charles Koven, Boris Faybishenko, Daniel Johnson, Nathan McDowell, S. Joseph Wright & Jeffrey Chambers
14:45	Traits govern variation among plant species in density-dependence during seed-to-seedling transition [ID:222] Meghna Krishnadas, Edwin Lebrija-Trejos, Joseph Wright & Liza Comita
15:00	Demographic fate of an endemic epiphytic orchid in a post-hurricane hurricane context [ID:405] Iván A. Ortiz-Rodríguez, Josep Raventos, Ernesto Mújica, Elaine González, Ernesto Vega-Peña, Pilar Ortega-Larrocea, Andreu Bonet & Cory Merow
15:15	Assessing roadkill events to reduce wildlife mortality in roads of the Mid-Magdalena Valley Colombia [ID:494] Diana Cardona, Fabio Leonardo Meza-Joya, Eliana Ramos-Palares & Mauricio Torres
15:30	Production dynamics of cultural grasslands in humid tropics of North East India [ID:369] Karabi Pathak, Yadvinder Malhi, Imma Oliveras, Arunjyoti Nath & Ashesh Kumar Das

UXMAL [Venue: HI]

Biological and social bases for sustainable use of non timber forest products

TIME	PRESENTATION
14:30	A functional trait approach to agroecology: identifying avocado trees with high water-use efficiency [ID:237] Aleyda Acosta-Rangel, Eleinis Ávila-Lovera, Mark E. De Guzman, Mary Lu Arpaia, Eric Focht & Louis Santiago
14:45	Enterprise based conservation of non-timber forest products and livelihood in Western Ghats, India [ID:257] Siddappa Setty R, Ravikanth G, Madegowda C, Venkata Naidu & Harisha R P
15:00	Chronic defoliation on reproductive success of a tropical dry forest palm in Sonora, Mexico [ID:319] Leonel Lopez-Toledo, Angeles Perez-Decelis, Eduardo Cuevas-García & Bryan Endress
15:15	Nontimber forest extraction as a driver of ecological change in Peruvian Amazon [ID:478] Bryan Endress, michael Gilmore, Christa Horn & Victor Vargas
15:30	Overcoming barriers to the sustainable use of native orchids in the Colombian Andes [ID:597] Carolina Castellanos-Castro, Martha Vallejo Joyas, María Carolina Rozo Mora, Diana López Diago & Néstor García Castro
15:45	Using <i>in situ</i> symbiotic seed germination to restore over-collected medicinal orchids in Southwest China [ID:635] ShiCheng Shao, Kevin S. Burgess, Jennifer Cruse-Sanders, Qiang Liu, Xuli Fan, Hui Huang & JiangYun Gao,

TULUM [Venue: HI]

Conservation initiatives and tropical biology research

TIME	PRESENTATION
14:30	An analysis of conservation success of ATBC Declarations since inception [ID:479] Stephen Turton, Antony Lynam, Alice Hughes, Pia Parolin, Sophie Calmé & Jose Manuel V. Fragoso
14:45	How does nationality influence the productivity and impact of tropical biologists? [ID:322] Emilio Bruna
15:00	Search for orphaned legacy tropical forest datasets [ID:281] Sheila Ward & Gillian Petrokofsky
15:15	The ancient Maya and the modern forest: mutualism of history and ecology [ID:273] Nicholas Brokaw, Sheila Ward, Timothy Beach, Sheryl Luzzadder Beach, Stanley Walling, Marisol Cortes-Rincon, Fred Valdez & Samantha Krause
15:30	Unintended multi-species co-benefits of community-based conservation in lowland Amazonia [ID:301] Joao Campos-Silva, Carlos Peres, Joseph Hawes & Paulo Andrade

KABAH [Venue: HI]

Human development and tropical ecosystems

TIME	PRESENTATION
14:30	Revealing patterns of shared thinking on the science-practice interface in ecology and conservation [ID:274] Renata Pardini, Diana Garcia, Carla Morsello & Charbel El-Hani
14:45	Small landholder agroforestry and forest use in ethnically diverse communities in South India [ID:306] Pamela Scheffler, Siddappa Setty & Timothy Scheffler
15:00	Bushmeat consumption and nutrition in Amazonia [ID:326] Patricia Torres & Luke Parry
15:15	High Andean biodiversity food for everybody, innovation as a strategy for the <i>ex situ</i> conservation [ID:506] Nathalia Chavarro - Rodriguez, Maria Torres, Ricardo Pacheco, Diana Corzo & Maria Hernandez
15:30	Natural and human-related effects in the structure and diversity of the Atlantic Forest [ID:94] Renato A. Ferreira de Lima, Alexandre Adalardo de Oliveira, Gregory Ramos Pitta & Paulo Inácio Prado
15:45	Resilience of peri-urban secondary forests in Andean forests [ID:435] Ana Belén Hurtado, Beatriz Salgado-Negret, Diego Gonzalez, María Ángela Echeverry-Galvis, Juan Posada & Natalia Norden

MAYA [Venue: HI]

Corals and other aquatic systems

TIME	PRESENTATION
14:30	Optical traits: a morpho-functional approach to explain coralline niche distribution in coral reefs [ID:5] Román Vásquez-Elizondo & Susana Enríquez
14:45	Influence of sediments and tungsten traces on the <i>Pseudodiploria</i> corals from the Gulf of Mexico [ID:7] Norberto Colín García, Jorge E. Campos, Jose Luis Tello Musi & Jesús Ernesto Arias Gonzalez
15:00	What if we miss one mangrove? [ID:474] Marina Corrêa, Paola Sanches & Alexander Turra
15:15	Environmental DNA: a promising tool for fish biodiversity assessment in Brazilian basins [ID:540] Naiara Guimaraes Sales, Owen Wangensteen, Daniel Carvalho & Stefano Mariani
15:30	Urbanization effects on leaf-litter decomposition & aquatic macroinvertebrates in tropical streams [ID:609] Leticia Classen-Rodríguez & Alonso Ramírez

POSTERS

THURSDAY July 13th, 2017

POSTERS

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1	Gorillas ranging patterns are strongly influenced by their food plant distribution [ID:1] Olivier Jean Leonce Manzi, Elias Bizuri & Winnie Eckadt
2	Culturing of mountain gorilla fecal samples for identifying gastrointestinal helminths [ID:2] Alexandre Gategeko & Aisha Nyiramana,
3	Are earth mounds local biodiversity coldspots or sentinels of degradation in the Caatinga, Brazil? [ID:9] Karine Carvalho, Marcos Augusto Carneiro, Ivan Nascimento, Amartya Saha & Emilio Bruna
4	Mountains: refugia of indigenous plant species in a degraded savanna region [ID:15] Rahila Yilangai, Joseph Onoja, Sonali Saha, Emmanuel Elisha & Shiiwua Manu
5	Landscape effects on the angiosperm phylogenetic diversity of ephemeral freshwater wetlands [ID:22] Tatiana Lobato de Magalhaes, Arturo De Nova & Mahinda Martinez
6	Variations in bark features of Melastomataceae species across different sites of Brazilian Cerrado [ID:29] Sylvia Machado, Camilla Milanez & Carmen Regina Marcati
7	Leaf types in the Brazilian cerrado according to bundle sheath extension (BSE) [ID:38] Sylvia Rodrigues Machado, Carmen Silvia Fernandes Boaro, Amanda Cristina Esteves Amaro, Katiane Reis Mendes & Tatiane Maria Rodrigues
8	Stem structure indicates adaptation of tropical species to habitats with different rainfall regimes [ID:60] Carmen Marcati & Marcela Blagitz,
9	Do either altitude or flowering suggest effects in the papillae development in <i>Chusquea</i> (Poaceae)? [ID:63] Vera Lucia Scatena, Thales D. Leandro & Lynn G. Clark
10	Marketing agroforestry products carbon sequestration contribute livelihood improvement in Cameroon [ID:69] Choungou Nguekeng Patrick Bustrel, Jiofack Tafokou René Bernadin, Tchoundjeu Zacharie & Foundjem-Tita Divine
11	Changes in bark traits along the plant body from Brazilian savanna [ID:82] Paula Cristina Benetton Vergilio, Julieta Alejandra Rosell & Carmen Regina Marcati
12	Cacti species from the Brazilian Chaco: an illustrated field guide for conservation [ID:89] Vanessa Nóbrega Gomes, Wellington Santos Fava, Paulo Robson Souza, Daniela Zappi & Andrea Cardoso de Araujo
13	Effects of tree species diversity on insect herbivory and leaf defences in <i>Cordia dodecandra</i> [ID:98] Sylvia Rosado, Luis Abdala, Víctor Parra, David Betancur & Xoaquín Moreira
14	Temporal patterns of bird communities associated with habitat productivity in the Yucatán Peninsula [ID:160] Aldo Iván Echeverría Caro & Richard Evan Feldman
15	Identifying trait-based correlates of disturbance response among tropical birds and dung beetles [ID:163] Tyler Huntington, Larissa Boessing, Jean Paul Metzger & Elizabeth Nichols
16	High intermediary mutualist density provides consistent biological control in a tripartite mutualism [ID:228] Iris Saraeny Rivera Salinas, Zachary Hajian- Forooshani, Esteli Jimenez-Soto, Juan Antonio Cruz-Rodriguez & Stacy Philpott
17	Diversity, phenology, and bird migration in urban green spaces of Merida, Mexico [ID:229] Zeydi Esmeralda Miam Tuz, Alfredo Dorantes Euan, Richard Feldman & Horacio Salomón Ballina Gómez
18	Phylogenetic diversity of the Sierra Madre Oriental plant communities [ID:239] Arturo de Nova & Maria Magdalena Salinas-Rodriguez
19	Are the protected populations of the two globular cacti species facing a demographic explosion? [ID:254] Yasmine Antonini, Rodrigo Silveira, Rodolfo Dirzo & Rita Portela
20	The underestimated risk in little-known species, large-spotted civets <i>Viverra megaspila</i> [ID:255] Ai Suzuki, Jeffrey Silverman, Aing Sereyarath & Akihisa Iwata
21	Changes in epiphytic bryophyte communities in Brazilian cacao agroforestry [ID:267] Luciana Carvalho dos reis & Kátia Cavalcanti Pôrto

22	Why are some marine fish species more vulnerable than others? [ID:292] Julia Verba, Maria Grazia Pennino & Priscila Lopes
23	Social dimensions of conservation conflicts in Calakmul Biosphere Reserve, Mexico [ID:302] Malena Oliva & Eduardo García Frapolli
24	Integrated conservation of threatened tree species: <i>Quercus brandegeei</i> in S. Baja California, Mexico [ID:304] Audrey Denvir, Antonio González Rodríguez, Hernando Rodríguez Correa, Jeannine Cavender-Bares, Neil Gerlowski & Murphy Westwood
25	Subtle determinism of second-growth forest heterogeneity: implications for vertebrate conservation [ID:372] Timothy Treuer, Andrew Dobson & David Wilcove
26	Floristic composition and structure of natural regeneration one year after logging in Western Amazon [ID:413] Anelena Lima de Carvalho & Marcus Vinício Neves d'Oliveira
27	Biodiversity and ecosystem function along the process of tropical forest conversion to agriculture [ID:429] Germán Wies, Aline Pingarroni & Miguel Martínez-Ramos
28	A global analysis of multiple dimensions of bird diversity [ID:433] Flavia A. Montañó-Centellas & Christy McCain
29	Relative impacts of mammal and habitat loss on dung beetle community structure [ID:451] Jordan Reyes, Renata Pardini, Jean Paul Metzger & Liz Nichols
30	In vitro propagation of the giant bamboo <i>Guadua Kunth</i> in the southwestern Amazon, Brazil [ID:456] João Ricardo Avelino Leão, Andréa Raposo, Elias Melo de Miranda, Renata Beltrão Teixeira Yomura, Lucielio Manoel da Silva, João Paulo da Cunha Lima, Stoney Nascimento Pinto, Ana Claudia Lopes, Susana Melo & Raul Oscar Escalera Acosta
31	Acute toxicity variation of chlorothalonil across multiple genera of tropical amphibians [ID:473] Gabrielle Maltaverne & Steven Whitfield
32	Agriculture matrices impacts on ant species richness in Atlantic Forest [ID:492] Iracenir Dos Santos, Diego Assis, Flavio Ramos, Jonathan Majer, Daniela Pauletto, Mario Jorge Santos & Evaldo Vilela
33	Areas of endemism from the cloud forests of Mexico and identification of areas for conservation [ID:499] Gustavo Montiel-Canales, Irene Goyenechea Mayer-Goyenechea & Tania Escalante Espinosa
34	An interdisciplinary approach to gaining insights on rare species: Bush dogs in the Rupununi, Guyana [ID:501] Matthew Hallett, Samantha James, Fernando Li, Gerard Pereira, Duane DeFreitas, Felix Holden, Ashley Holland & Angus Jackman
35	How does landscape and fragment metrics shapes dung beetle diversity in Los Tuxtlas, Mexico? [ID:514] Amandine Bourg & Federico Escobar-Sarria
36	Diversity and species turnover in tree species along an altitudinal gradient in Morelos, Mexico [ID:542] Consuelo Bonfil, Karla Bilbatúa & Bruno Barrales
37	Incidence of morphological abnormalities in the endangered salamander <i>Ambystoma ordinarium</i> [ID:551] Carlos Soto-Rojas, Ileri Suazo-Ortuño, José Arturo Montoya-Laos & Javier Alvarado-Díaz
38	Improved management through collaborative partnership in the South Sumatran landscape [ID:558] Hari Priyadi
39	In vitro orchids germplasm bank, a strategy for <i>ex situ</i> conservation in the Bogotá Botanical Garden [ID:565] Ricardo Arturo Pacheco Salamanca, Nathalia Chavarro-Rodríguez, Camilo Cardenas & Lizeth Echeverry
40	Comparison between <i>Phyllophaga</i> (Coleoptera: Melolonthidae) assemblages in Western Cuba [ID:567] Annery Serrano, Miguel Ángel Morón & Alejandro Barro
41	Composition and functional diversity of terrestrial mammals at the Greater Lacandona Ecosystem [ID:569] Paulina Arroyo-Gerala, Valeria Towns, Rodrigo A. Medellín, Javier de la Maza & Antonio de la Torre
42	Association of <i>Ocimum basilicum</i> in the rose bush: Implications for conservation biological control [ID:579] Elo Brasil Silva & Livia Carvalho
43	Climate change, aguadas and herpetofaunal community structure in the Calakmul Biosphere Reserve [ID:585] Jose Barão-Nóbrega, Antonio Lopez Cen, Dsvíd Sima Panti, Caroline Acton & Kathy Slater
44	Amphibian diversity in two forest inside a biosphere reserve of mountain cloud forest in Mexico [ID:588] Carlos Omar Becerra Soria & Gabriela Parra Olea
45	Forest biodiversity in Sorocaba's Metropolitan Region [ID:590] Eliana Cardoso-Leite, Samuel Coelho, Laine Silveira Correa, Kaline Mello, Tatiana Yukari Wakabayashi, rafael Gregorini,

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47 **Soil biodiversity footprints in human-modified landscapes: the case of the Amazonian Dark Earths [ID:596]**

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49 **Evaluating biodiversity and ecosystem services in a mosaic of agricultural land and forest patches [ID:621]**

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50 **Sudden flooding vulnerability and conservation prioritization in the Pacific Islands [ID:631]**

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51 **Effect of chemical pollution and parasitism on heat tolerance in dung beetles [ID:46]**

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54 **Estimates of the equivalent CO₂ stock in the native vegetation of the South-Western Amazon [ID:227]**

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55 **Landscape level spatial patterns in forest drought response in eastern Puerto Rico [ID:348]**

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57 **Beyond deforestation: Mexican land cover transitions [ID:415]**

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58 **Including seed dispersers in individual-based forest models [ID:418]**

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59 **Prevalence and seasonality of avian haemosporidian parasites in Brazilian tropical dry forest [ID:439]**

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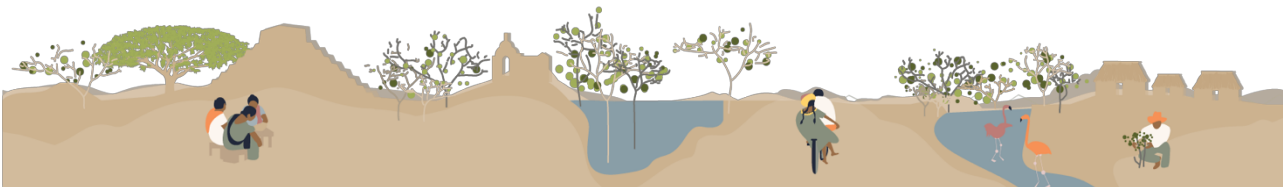
63 **Representing the role of tree recruitment in tropical forest change in Earth system models [ID:516]**

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