



DFG-FOR2730: “Environmental changes in biodiversity hotspot ecosystems of South Ecuador: RESPonse and feedback effECTs“

Status Symposium

in the spirit of Alexander von Humboldt



Hosted by:





DFG-FOR2730: “Environmental changes in biodiversity hotspot ecosystems of South Ecuador: RESPonse and feedback effECTs“

General Timetable

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|-------------|-----------|----------------------------------------------------------------------------------------------------------------------------|
| 07 Oct 2019 | morning | In the footsteps of Alexander von Humboldt (AvH) - Joint German-Ecuadorian Ecosystem Research in S. Ecuador (English) - |
| 07 Oct 2019 | afternoon | Status Symposium part 1, scientific presentations in English |
| 07 Oct 2019 | evening | Joint Dinner |
| 08 Oct 2019 | morning | Status Symposium part 2, scientific presentations in English |
| 08 Oct 2019 | noon | Symposium in Spanish |
| 08 Oct 2019 | afternoon | Member Assembly |
| 08 Oct 2019 | evening | Presentation of the annual report of NCI (Museo de la Cultura Lojana, Parque Central, 19h) |

Supported by and contributions from:





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Alexander von Humboldt – Symposium at UTPL, Loja

Monday 07/10/2019, 09:00 – 12:35 (talks in English)

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| 09:00 – 09:05 | Welcome by the host | Suarez |
| Chair | Farwig | |
| 09:05 – 09:15 | Welcome address German Embassy, the AvH year | Bachmann |
| 09:15 – 09:55 | The legacy of AvH - 20 years of German-Ecuadorian ecosystem research in South Ecuador | Bendix |
| 09:55 – 10:15 | Ecosystem research at the UTPL in the spirit of AvH | Suarez |
| 10:15 – 10:35 | Ecosystem research at the UC in the spirit of AvH | Célleri |
| 10:35 – 10:55 | Ecosystem research at the UNL in the spirit of AvH | Aguirre |
| 10:55 – 11:25 | Coffee Break and Posters | |
| Chair | Bräuning | |
| 11:25 – 11:45 | Ecosystem research at the UDA in the spirit of AvH | Zárate |
| 11:45 – 12:05 | Ecosystem research and conservation at NCI in the spirit of AvH | Paladines |
| 12:05 – 12:25 | Benefits of ecosystem research in the spirit of AvH for INABIO | Inclán |
| 12:25 – 12:35 | Book presentation | Beck & Bogner |
| 12:35 – 13:35 | Reception | |



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RESPECT Status – Symposium at UTPL, Loja

Monday 07/10/2019, 13:45 – 17:00 (talks in English)

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| | 13:45 – 14:15 | Introduction to RESPECT | Bendix |
| Chair | Beck | Subprogram A | |
| | 14:15 – 14:30 | Optical trait spaces in the tropical mountain forest functional communities along an elevation gradient | Limberger et al. |
| | 14:30 – 14:45 | Determination of fetch areas for comparing ET and NEE over natural forest and anthropogenic replacement systems in the RBSF area | Trachte et al. |
| | 14:45 – 15:00 | Drifting cycles: The nutrient economy of the tropical montane forest in south Ecuador responds to environmental change | Wilcke et al. |
| | 15:00 – 15:15 | Total organic carbon concentrations in ecosystem solutions of a remote tropical montane forest respond to global environmental change | Velescu et al. |
| | 15:15 – 15:30 | LPJ-HUMBOLDT: Simulating plant trait shifts within an altitudinal gradient | Dantas de Paula et al. |
| | 15:30 – 16:00 | Coffee Break | |
| Chair | Wilcke | Subprogram B | |
| | 16:00 – 16:15 | Effects of long-term nutrient addition to Andean tropical forest - results from the Ecuadorian nutrient manipulation experiment (NUMEX) | Homeier et al. |
| | 16:15 – 16:30 | Long-term water consumption and stem diameter variations of different tree functional types in Reserva Biológica San Francisco | Raffelsbauer et al. |
| | 16:30 – 16:45 | From seed dispersal networks to forest regeneration | Rojas et al. |
| | 16:45 – 17:00 | Linking traits of tree species with herbivory in tropical mountain rainforests | Farwig et al. |
| | 19:00 | Joint Dinner | |



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RESPECT Status – Symposium at UTPL, Loja

Tuesday 08/10/2019, 9:00 – 11:30 (talks in English; poster session)

| Chair | Suarez | Platform Projects | |
|-------|---------------|------------------------------------------------------------------------------------------------------------------------------|------------------------|
| | 09:00 – 09:15 | Climate indexes and trends for the protection forest "Corazon de Oro" in southern Ecuador | Fries et al. |
| | 09:15 – 09:30 | Machine learning models leverage raw radar data for runoff forecasting in remote mountain areas | Orellana et al. |
| | 09:30 – 09:45 | Are soils like sponges? Insights from hydrometric, isotopic and soil properties. Observations at a tropical alpine hillslope | Mosquera et al. |
| | 09:45 – 10:00 | Community change across space and time in an Andean high elevation Ecuadorian national park | Tinoco et al. |
| | 10:00 – 10:15 | Deciding on deforestation - how do multiple ecosystem functions and biodiversity matter? | Knoke et al. |
| | 10:15 – 10:30 | Environmental literacy of Latin American adolescents (on the example of Cuba) | Bogner et al. |

10:30 – 11:30 Guided Poster Session with Coffee (3 min talks at poster)

| Chair | Céleri | | |
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| | 1 | Sodium limitation of soil fauna affects decomposition processes in a tropical montane forest in South Ecuador | Fabian et al. |
| | 2 | LPJ-HUMBOLDT: Simulating plant trait shifts within an altitudinal gradient | Dantas de Paula et al. |
| | 3 | Analysis of cork cambial growth rings in prickles of <i>Erythrina velutina</i> in a dry forest in southern Ecuador | Raffelsbauer et al. |
| | 4 | Anatomical features of wood in tropical tree species of southern Ecuador | Chamba et al. |
| | 5 | Pasture farming in the Andes of Ecuador: The response of Mequeron (<i>Setaria sphacelata</i>) to fertilization with nitrogen | Adams et al. |
| | 6 | Encounters between experiences and measurements: the role of local knowledge in climate change research | Kieslinger et al. |
| | 7 | Biosphere reserves and biodiversity conservation in megadiverse Ecuador | Pohle et al. |
| | 8 | Land-use/land-cover changes (LUCC) in the Alto Nangaritzza, southern Ecuadorian Amazon | Buitrón et al. |
| | 9 | Blue intensity in the Tropics: Evaluation of blue intensity for the identification of earlywood and latewood in <i>Cordia alliodora</i> (Ruiz & Pav.) from a plantation in Zamora Chinchipe province, Southern Ecuador | Muñoz & Pucha |
| | 10 | Comparison of direct and indirect measurements of tree water relations in different tree functional types | Beck et al. |
| | 11 | Variation of functional tree leaf and root traits at different elevations in the Ecuadorian Andes | Pierick et al. |
| | 12 | Wood anatomical evaluation of 50 tree species from southern Ecuador | Armijos et al. |



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| 13 | Physical properties and wood anatomical features of <i>Cinchona officinalis</i> (L.) Ruiz and <i>Cinchona macrocalyx</i> Pav. Ex DC from forest relicts in southern Ecuador | Espinoza et al. |
| 14 | Wood anatomical features of five types of <i>Theobroma cacao</i> (L.) from southern Ecuador | Zhiñin et al. |
| 15 | Estructura de redes de interacción de bandadas mixtas de aves en un paisaje disturbado del sur del Ecuador | Vásquez et al. |
| 16 | Plant size and a stress gradient influence femaleness of a monoecious shrub in an inter-Andean scrubland | Vélez-Mora et al. |
| 17 | Bat species recognition from echolocation calls using machine learning | Siddons et al. |
| 18 | Tropical Andes radar precipitation estimates need high temporal and moderate spatial resolution | Gualpa et al. |

11:30 – 12:30 Lunch break

Spanish Symposium at UTPL, Loja

Tuesday 08/10/2019, 12:30 – 14:20

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| 12:30 – 13:00 | Introduction RESPECT | Homeier et al. |
| Chair | Zárate | |
| 13:00 – 13:20 | LPJ-HUMBOLDT: Simulación de cambios en atributos de plantas dentro de un gradiente altitudinal | Dantas de Paula et al. |
| 13:20 – 13:40 | Turnos biológicos de corta para el manejo forestal sostenible al sur de Ecuador | Pucha et al. |
| 13:40 – 14:00 | Efecto de la altitud en la topología de las redes de interacción entre orquídeas epífitas y microbiontes - resultados preliminares | Herrera et al. |
| 14:00 – 14:20 | Implementación de un nuevo Radar de llluvias en Piura, Perú | Rodriguez et al. |
| 14:20 | Farewell | |