



DFG-FOR 2730: „Environmental changes in biodiversity hotspot ecosystems of South Ecuador: RESPonse and feedback effECTs“

RESPECT Planning Joint Field Campaign

Wednesday 26/09/2018, 09:30 – open end; ECSF Lecture Hall (Moderation E. Beck)

AI 1 Welcome, Introduction (Beck)

AI 2 State of plot selection; organisation of plot inspection trip (Matt)

AI 3 State of PFT-tree selection and time schedule for joint sampling (Homeier)

AI 4 Joint sampling methods of subprojects
A1-A4, B1-B4

AI 4* Progress reports of the speakers of subprograms A, B (state of joint synthesis activities, if any)

AI 5 Discussion and decisions

- Time and person schedule for plot sampling
- Sequential procedure of sampling at PFT-individuals

*Please provide a brief talk per subproject (15 min) which should include:

- Summary of aims / approach of subproject
- Which methods will be applied: (i) within the joint sampling, (ii) outside the joint sampling
- Particularly within joint sampling: How sensitive are the measurements against others (e.g. soil chemistry and fogging)?
- Hitherto planned time- and person-schedule for the joint field campaign in Feb/March 2019 (for AI 5)



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RESPECT Joint Field Inspection

27-28 Sept Visiting of the new plots

- Final decision on pasture plots
- Final decision of the location of the canopy towers in Bombuscaro / Cajanuma

29 Sept – 3 Oct

- Test sampling in tower plot ECST to test AI 5 of the planning meeting



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RESPECT UTPL-MSc workshop

Monday 05/10/2018, 09:00 – 12:30 ECSF Lecture Hall

AI 1 Welcome, Introduction (UTPL, Farwig)

AI 2 Introduction of UTPL MSc program (UTPL)

- Curriculum – what topics are possible for MSc-theses and courses (also abiotic topics?)?
- Time schedule – when have new students to be recruited (deadlines)
- Organisation (who is contact person between UTPL and subprojects)

AI 3* Introduction of potential collaboration within the subprojects

AI 4 Field presentation of approaches to the tower plot with the candidates

*Please provide a brief talk per subproject (15 min) which should include:

- Summary of aims / approach of subproject
- Which scientific objectives (with which approach/technique) out of (or in addition to) the program are possible for MSc students
- Potential topics for students form lower level (licenciatura etc.)



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RESPECT Member Assembly

Monday 08/10/2018, 09:00 – 12:30 ECSF Lecture Hall

AI 1 Welcome

AI 2 Approval of the Agenda

AI 3 Report Deputy-Coordinator

AI 4 Progress reports of the speakers of subprograms A, B (State of joint synthesis activities, if any)

AI 5 Report Station Manager (Matt)

- Development research permission, export etc.
- Joint MSc colloquia with UTPL, state of organisation

AI 6 Discussion Infrastructure

- The problem of the concrete staircases
- Tower construction Bombuscaro, Cajanuma
- Pasture plots
- Joint climate-hydro stations (Windhorst)

AI 7 Time schedule (decisions)

- Date and duration of joint field campaign 02/03 2019
- Date of next Member Assembly in Marburg (01 or 08 Feb 2019)

AI 8 Report on joint activities

- Joint publications (PAK booklets)
- Social Media (Spannl)
- Initiatives for joint publications

AI 9 Miscellaneous



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RESPECT Status – Symposium at UTPL, Loja

Tuesday 09/10/2018, 09:00 – 13:30 (talks in English), 12 Minutes Talk, 3 Min Discussion

09:00 – 09:30	Introduction to RESPECT		Farwig
Chair	Bräuning	A – Modelling and Covariates	
09:30 – 09:45	Atmospheric fluxes and optical trait diversity under climate and land use changes – observations and LSM modelling		Trachte , Pucha Cofrep, Carillo, Fries, Limberger, Bendix, Crespo
09:45 – 10:00	Simulating response and effect mechanisms of global climate change on hydrological fluxes in tropical montane ecosystems		Windhorst , Gaona, Castillo, Mosquera, Crespo, Breuer
10:00 – 10:15	Nutrient supply as driver of biomass production and associated ecosystem water fluxes along a land-use and climate gradient		Wilcke , Espinosa
10:15 – 10:30	Integration of ecophysiological processes and biotic interactions within a dynamic vegetation model (LSMBio): tree hydraulics, trait diversity, tree recruitment and insect herbivory		Hickler , Dantas de Paula
10:30 – 11:15	Coffee Break and Posters		
Chair	Hickler	B – Traits and Functions	
11:15 – 11:30	Linking tree above- and belowground traits across environmental and disturbance gradients in highly diverse tropical montane forests		Homeier , Pierick, Espinosa, Leuschner
11:30 – 11:45	Tree physiological and structural properties as response and effect traits of biotic-atmospheric interactions in natural and anthropogenic eco-systems in South Ecuador		Bräuning , Spannll, Beck, Pucha Cofrep
11:45 – 12:00	Trait-dependent effects of biotic and abiotic filters on plant regeneration		Acosta Rojas , Barczyk, Espinosa, Tinoco, Böhning-Gaese, Neuschulz, Schleuning
12:00 -12:15	Integrating abiotic covariates, functional trait diversity and consequences of important processes on the ecosystem level		Tiede , Solís Oberg, Brandl, Farwig
12:15 – 13:30	Lunch Break		



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Tuesday 09/10/2018, 13:30 – 17:30 (talks in English), 12 Minutes Talk, 3 Min Discussion

Chair	Suarez		
	13:30 – 14:15	GUIDED POSTER SESSION	
Chair	Wilcke	Platform Ecuador	
	14:15 – 14:45	Introduction to Platform Ecuador	Siddons
	14:45 – 15:00	The anthropogenic disturbance and the consequent habitat mosaics modify the patterns of habitat occupancy and community structure	Espinosa
	15:00 – 15:15	Grazing affect spatial structure of <i>Bursera graveolens</i> in a tropical dry forest southern Ecuador	Patiño , Ramón, Gusmán
	15:15 – 15:30	Main factors affecting the community composition of mycorrhizal fungi associated with tropical epiphytic orchids in three localities of Ecuador	Suarez , Cevallos, Herrera, Sánchez - Rodríguez
	15:30 – 15:45	Finding the needle in the haystack – extracting meaningful information from bat recordings	Siddons , Astudillo, Jara, Bendix, Brandl, Farwig
	15:45 – 16:00	Effect of land cover and hydro-meteorological controls on soil water DOC concentrations in a high-elevation tropical environment	Pesántez , Crespo
	16:00-16:30	Coffee Break, Posters	
Chair	Farwig	Miscellaneous	
	16:30 – 16:45	RadarNet Sur Phase II - Extensions and Objectives	Orellana , Bendix, Fries, Cellerie, Crespo, Gualpa, Oñate-Valdivieso, Pucha, Rollenbeck
	16:45	End of Presentations	
	19:00	Joint Dinner Mar y Cuba	



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Tuesday 09/10/2018 between 13:30 – 14:15; Guided Poster Session; 3 minutes presentations of each poster

Moderation: Siddons

Name	Poster Title
Limberger , Pucha Cofrep, Carillo, Fries, Bendix, Crespo	Atmospheric fluxes and optical trait diversity under climate and land use changes – Modelling Perspective
Wilcke , Velescu, Leimer, Valarezo Pierick	Nutrient supply of the tropical montane forest in Ecuador: Organic matter mineralization vs. mineral weathering Tree fine root traits along topographical and elevational gradients
Raffelsbauer , Bräuning Spannl , Bräuning, Beck	Tree reaction to drought in a montane rainforest in southern Ecuador Learning by doing - experiences in light-response curves and RuBisCO analyses
Pucha Cofrep	Site-specific biological rotation age of <i>Juglans neotropica</i> in Southern
Santillán , Quitián, Tinoco, Zárate, Schleuning, Böhning-Gaese, Neuschulz	Different responses of taxonomic and functional indicators of bird diversity to forest fragmentation across an elevational gradient
Tiede , Wallis, Schlautmann, Donoso, Bendix, Brandl, Farwig	Ant incidence as an indicator of environmental change and ecosystem processes
Orellana-Alvear , Rollenbeck, Célleri, Bendix	Optimization of X-band rainfall radar retrieval in the Southern Andes of Ecuador using a random forest machine learning model
Carrillo-Rojas , Schulz, Orellana-Alvear, Ochoa-Sánchez, Trachte, Célleri, Bendix	Atmosphere-surface fluxes modeling for the high Andes: The case of the Páramo catchments of Ecuador