

'Ecology – meeting the scientific challenges of a complex world' – conference programme

Time						Monday, 10 September 2018					
09:30		<i>D0.9.2 - Registration</i>									
13:30		<i>Audimax - Opening address by GfÖ president</i>									
14:30		<i>Audimax - Keynote by Stefan Dullinger</i>									
		<i>Audimax</i>		<i>Lecture hall 1 (H01)</i>		<i>Lecture hall 2 (H02)</i>		<i>Lecture hall 3 (H03)</i>		<i>Lecture hall 4 (H04)</i>	
		Session 5		Session 17		Session 32		Session 18		Session 19	
		Carbon allocation and storage in plants and ecosystems: new insights from experiments and field observations		Ecological and conservation genetics		The role of plant diversity for other trophic levels: insights from biodiversity experiments		Host vector parasite interactions and global change		IPBES beyond assessments - ecological research results informing decision-making	
15:30		5-1 H. Poorter: Inherent and environmental patterns in biomass allocation and allometry among higher plants		17-1 C. Lexer: Development of 'target capture' markers for ecological and conservation genetics in non-model species		32-1 J. Koricheva: Effects of tree species diversity on trophic interactions between herbivores and their predators		18-1 S. Renner: Avian Haemosporidia respond indirectly to forest management but less to magnitude of local transmission risk		19-1 D. Leclere: Towards pathways bending the curve of terrestrial biodiversity trends within the 21 st century	
15:45		5-2 H. Hartmann: Sweet dreams are made of these - standardized protocols and procedures can solve the carbohydrate quandary		17-2 H. Meimberg: Microsatellite genotyping options using NGS		32-2 I. van Schroyenstijn Lantman: Tree identity rather than tree diversity impacts herbivores and predators		18-2 R. Womack: Investigating malaria parasite effects on the circadian biology of wild birds using a new qPCR method		19-2 M. Darbi: The policy support function of IPBES: how could this be more effectively developed and implemented?	
16:00		5-3 C. Werner: Tracing plant carbon partitioning between primary and secondary metabolism		17-3 T.A. Lehmailr: Genetic conservation areas - a new approach to protect both species and genetic diversity in calcareous grasslands		32-3 F. Gottschall: Revealing the effects of tree diversity on consumer-mediated ecosystem functions - insights from the Kreinitz experiment		18-3 W. van Hoesel: Haemosporidian prevalence, vector abundance, and avian malaria transmission respond to specific forest characteristics		19-3 U. von Witsch: IPBES-Assessments completed - what next? Examples of German follow-up activities	

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Monday, 10 September 2018 (cont.)					
Time	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>	<i>Lecture hall 4 (H04)</i>
	Session 5 (cont.)	Session 17 (cont.)	Session 32 (cont.)	Session 18 (cont.)	Session 19 (cont.)
16:15	5-4 J. Helm: A new field-applicable method for measuring stem respiration by combining CO ₂ and O ₂ sensors	17-4 T. Wolfe: Macro- and microevolutionary drivers of allopolyploid evolution in <i>Dactylorhiza</i>	32-4 C. Skarbek: Plot level but not local neighborhood tree diversity increase leaf litter ant diversity	18-4 A. Marzal: Host-parasite interactions in a world in change: deforestation, biological invasions and avian malaria	19-5 K.P. Zulka: An Austrian perspective on completed IPBES assessments and potential future developments
16:30	Coffee break				
	Session 5 (cont.)	Session 17 (cont.)	Session 32 (cont.)	Session 6	Session 31
				Citizen Science in ecology: a long history in long term monitoring	The need of long-term data for taking nature's pulse
17:00	5-5 K. Romek: Real time carbon allocation into BVOCs and day released CO ₂ traced by a novel approach using ¹³ C-metabolite labelling	17-5 C. Bräuchler: Ecological restoration methods on trial - testing seed sourcing concepts using population genetics	32-5 M. Staab: Tree genetic diversity increases arthropod diversity in willow short rotation coppice	6-1 T. Starkmann: The common swift survey in Vienna - a citizen science approach	31-1 G. Pröll: Unlikely biodiversity benefits through reduced Nitrogen deposition in European forests until 2030
17:15	5-6 A. Gessler: Carbon and water - effects of 15 years of precipitation manipulation on C allocation and storage in trees	17-6 E. Pagel: Conserving genetic diversity in a changing world - novel approaches for oat-grass meadows on the Swabian Alb	32-6 C. Poeydebat: Climate, not tree diversity, drives insect herbivory in forests at a global scale	6-2 J. Rüdisser: Viel-Falter becomes Butterfly Monitoring Tirol	31-2 H. Spiegel: How does different arable management affect soil organic carbon, nutrient cycling and crop parameters in Austria?

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Time	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>	<i>Lecture hall 4 (H04)</i>
	Session 5 (cont.)	Session 17 (cont.)	Session 32 (cont.)	Session 6 (cont.)	Session 31 (cont.)
17:30	5-7 B.D. Hesse: Carbon allocation and phloem transport in mature beech trees under reoccurring long-term summer drought	17-7 M. Curto: The role of hybridization in sorting adaptive characters during the colonization of oceanic islands	32-7 O. Ferlian: Mycorrhiza in tree diversity-ecosystem function relationships: conceptual framework, experimental implementation, and first results	6-3 D. Frigerio: Involving pupils in long-term biological monitoring: lessons learnt and future perspectives	31-3 R. van Klink: A global meta-analysis of long-term insect community changes shows lots of variation, but no net decline
17:45	5-8 L. Schönbeck: Nutrients might be rather foe than friend to drought stressed trees	17-8 J. Joschinski: Insect diapause is sensitive to climate variability: a meta-analysis	32-8 G. Pufal: Environmental conditions affect the probability of seed dispersal or predation through changes in slug behavior	6-4 N. Teufelbauer: Bird conservation - experiences from the long-lasting work of BirdLife Austria	31-4 N. Roth: ¼ century of water beetle monitoring reveals changes in diversity and community composition
18:00	5-9 J. Ingrisch: Land use alters drought effects on belowground partitioning of recent carbon in mountain grassland	17-9 B. Pachinger: Investigating the population genetic structure of the wild bee <i>Andrena danuvia</i> using microsatellites	32-9 D. Giling: Plant diversity moderates consumer functional diversity and trophic interaction structure	6-5 E. Kühn: Butterfly Monitoring Germany: 13 years in flight - recording the highs and lows of a citizen science project and of butterfly populations	31-5 M. Frenzel: Bee community patterns in agricultural landscapes - do they change in the long run and does it matter?
18:15	5-10 W. Oberhuber: Cambial response of <i>Picea abies</i> to manipulated carbon availability indicates strong sink demand belowground		32-10 J. Tiede: Plant diversity-driven changes in consumer stoichiometry have consequences for reproductivity	6-7 D.E. Bowler: Species attributes associated with long-term declines of insectivorous birds in Europe	31-6 I. Djukic: Bridging the gaps by tea - a simple approach to collaboration in ecosystem science
18:30	Festsaal - Poster Session Foyer - Ice Breaker				

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08:30	<i>Audimax</i> - Keynote by Claudio Gratton				
09:30	Coffee break				
	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>	<i>Lecture hall 4 (H04)</i>
	Session 3	Session 24	Session 1	Session 7	Session 14
	Application of the functional trait framework in ecological theory and restoration ecology	Origin and development of steppe habitats	Agroecology: science and practices for sustainable agriculture	Microbial ecology and soil processes in a changing world	Forest ecology - linking diversity and function
10:00	3-1 J. Ahlborn: Functional diversity in equilibrium and non-equilibrium rangelands - a case study from Mongolia	24-1/2 H. Hurka: Origin and evolutionary history of the Eurasian steppe belt	1-1 L. Bassermann: Agroecology: Science, practices and movements for sustainable agriculture	7-1 S. Scholz: Influence of microclimatic conditions on biological soil crust wetness and activity on initial soils of reclaimed post-mining areas	14-1 C. Dormann: Re-analysis: the global tree diversity - forest productivity relationship evaluated across biomes
10:15	3-2 F. Velbert: Effects of climate, soil and land-use on plant functional traits along a 1,200 km latitudinal transect through Kazakhstan and Western Siberia		1-2 A. Das: Agroecology as a practice: sustainable production and consumption through integrated farming (case study India)	7-2 R. Heim: Impacts of tundra fires on soil carbon	14-2 P. Zabransky: Ecological niche features crucial for the occurrence of xylobiont beetles
10:30	3-3 N. Hölzel: Plant functional responses to fire and grazing after a dramatic shift in disturbance regimes on the Eurasian steppes	24-3 K. Wesche: Population genetics of <i>Stipa glareosa</i> (Poaceae) along gradients of climate and land use in Mongolia	1-3 A. Lausch: Data science for agroecology	7-3 K. Schmittner: Impact of nitrogen deposition on forest biogeochemical processes investigated using a tool kit of stable isotope methods	14-3 J. Leidinger: Comparing community composition and diversity of birds and bats in nature reserves and selectively harvested stands

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Time						Tuesday, 11 September 2018 (cont.)					
		<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>	<i>Lecture hall 4 (H04)</i>					
		Session 3 (cont.)	Session 24 (cont.)	Session 1 (cont.)	Session 7 (cont.)	Session 14 (cont.)					
10:45	3-4 L. van dan Brink: The effect of 'home' and climate on litter decomposition in Chile	24-4 K. Plenk: Phylogeographical history and intraspecific genetic diversity in Pannonian and Western Pontic steppe grasslands	1-4 T. Drapela: Biodiversity potential - an expert based method for biodiversity assessment on agricultural farms in Austria	CANCELLED 7-4 J. Friedl: Dissimilatory nitrate reduction to ammonium (DNRA) and denitrification upon rewetting of subtropical pasture soils	14-4 K. Krämer-Klement: How does forest management affect diversity, species composition and functional composition of forest communities?						
11:00	3-5 R. Canessa: Leaf functional diversity effects on litter decomposition along a climate and vegetation gradient in the Chilean coastal cordillera	24-5 P. Kirschner: More than an appendix - populations of inner-alpine steppe species are more divergent (and conservation relevant!) than anticipated	1-5 M. Glemnitz: Improving the ecological impact of maize cropping through sown wildflowers strips	7-5 G. Ferretti: Immediate effects of soil amendments with natural and NH ₄ -enriched chabazite-zeolite on soil microbial biomass and gaseous emissions	14-5 M.-R. Paiva: Insects contribution to forest ecosystems services and disservices - case study: plantations in Portugal						
11:15	3-6 P. Hietz: Relationships between functional traits, success of reforestation, and habitat preference in a Costa Rican rainforest area	24-6 A. Zerdoner Calasan: Genes documenting history: uncovering the phylogeographic patterns of <i>Camelina</i> Crantz	CANCELLED 1-6 D. Ganser: Wildflower strips enhance pollination in adjacent strawberry crops at the small scale	7-6 P.-M. Schleuss: Stoichiometric controls of soil element cycling in a mesic grassland in South Africa - insights from a 66-years old nutrient addition experiment	14-6 P. S. Pozo Inofuentes: Towards multifunctional, biodiverse and sustainable productive forest landscapes in the northwestern Uruguay						
11:30	3-7 J. Kermavnar: Logging impacts functional trait composition and increases functional diversity of understory vegetation in Dinaric fir-beech forests	24-7 N. Friesen: Species of the Central Asian steppe section <i>Rhizomatosa</i> of the genus <i>Allium</i> were from the beginning at evolution of steppe vegetation	1-7 M. Meyer: Functional groups are differentially sensitive to temporal diversification in agricultural landscapes	7-7 L.M. Bischofer: Linking litter decomposition to soil carbon stocks under Norway spruce, Douglas fir and European larch	14-7 D. Assefa: The effect of land use change on soil carbon stock and quality at Ethiopian highland ecosystems						

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	<i>Audimax</i>		<i>Lecture hall 1 (H01)</i>		<i>Lecture hall 2 (H02)</i>		<i>Lecture hall 3 (H03)</i>		<i>Lecture hall 4 (H04)</i>		
	Session 3 (cont.)		Session 24 (cont.)		Session 1 (cont.)		Session 7 (cont.)		Session 14 (cont.)		
11:45	3-8 B. Rewald: Enhancing our understanding of root systems using model-based techniques on phenotyping data		24-8 M. Leweke: About the polyploid complex in genus <i>Allium</i> L. subgenus <i>Reticulatobulbosa</i>		1-8 F. Herzog: European agroforestry systems provide multiple ecosystem services		7-8 F.-S. Krah: Testing mechanisms of community assembly between wood-inhabiting beetles, fungi and bacteria		14-8 J. Honkaniemi: Resilience of lowland forests in Eastern Austria - Norway spruce at the trailing edge		
12:00	<i>Festsaal</i> - Poster session										
13:00	Lunch										
14:00	<i>Audimax</i> - Keynote by Kerry Naish										
	Session 3 (cont.)		Session 11		Session 1 (cont.)		Session 7 (cont.)		Session 14 (cont.)		
			Ecology of biological invasions								
15:00	3-9 D. Aros-Mualin: Functional diversity in ferns is driven by species richness rather than by environmental constraints		11-1 J. Kollmann: High seed density is more effective than limiting similarity in controlling grassland resistance against invasive alien plants		1-9 F. Kirsch: Enhanced bee abundance due to diversified crop rotations with faba bean along a landscape heterogeneity gradient		7-9 M. Gorfer: Temporal and small-scale spatial heterogeneity of soil fungal communities in a montane beech forest		14-9 D. Matošević: Recovering the function of Sweet chestnut: classical biological control of invasive <i>Dryocosmus kuriphilus</i> with introduced parasitoid <i>Torymus sinensis</i>		
15:15	3-10 G. Ottaviani: Belowground plant functional ecology: what is beyond acquisition?		11-2 I. Kühn: Niche expansion of a rapidly range expanding invasive plant despite evolutionary constraints		1-10 E. Szerencsits: Wet arable land - the missing link in the wetland network		7-10 F. Wesener: The anticipation of stress affects the community structure of soil fungi		14-10 L. Seehra: EcoSens – comprehensive measurement of air quality and other environmental parameters in urban areas		

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	Session 3 (cont.)		Session 11		Session 1 (cont.)		Session 7 (cont.)		Session 13		
									Forest disturbance, land use change and plant-soil interactions		
15:30	3-11 S.F. Bucher: Temporal and spatial trade-offs between resistance and performance traits in herbaceous plant species		11-3 S.G. Vetter: The heterothermic wild boar: insights from implanting temperature loggers in a large mammal		1-11 F.M. Librán Embid: Plant-pollinator mutualistic networks in fragmented calcareous grasslands		7-11 E. Deltedesco: Climate change scenarios can induce shifts in soil microbial communities in a managed grassland		13-1/2 R. Seidl: Impacts of natural disturbances on forest carbon cycling and their implications for ecosystem management		
15:45	3-12 M. Kleyer: Trait correlation network analysis identifies stem traits as hub traits in herbaceous perennial plants		11-4 T. Hovestadt: Evolution and breakdown of nestmate recognition under multiple selective drivers		1-12 B. Panassiti: Influence of environmental factors on apple proliferation epidemiology in South Tyrol using Bayesian modeling		7-12 V. Coffey: Legacies of afforestation on soil nematode community composition, structure, and diversity in a northern Canadian prairie				
16:00	Coffee break										
	Session 3 (cont.)		Session 11 (cont)				Session 20		Session 13 (cont.)		
							Indicators and monitoring: measure, analyse, and communicate ecological changes and societal implications				

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		Session 3 (cont.)	Session 11 (cont.)		Session 20	Session 13 (cont.)					
16:30		3-13 S. Rosbakh: Is it the right place for me? Seed germination requirements explain wetland species distribution at local scale	11-5 O. Valkó: A new aspect of the dispersal of alien plants - human-dispersed seeds can survive and disperse after the laundry cycle		20-1/2 C. Krug: Biodiversity monitoring and ecological indicators for decision-making	13-3 M. Pernek: Outbreak of the bark beetle <i>Orthotomicus erosus</i> in the Mediterranean pine forests in Croatia					
		Session 3 (cont.)	Session 11 (cont.)	Session 22	Session 20 (cont.)	Session 13 (cont.)					
				Nature conservation and restoration - from science to practice							
16:45		3-14 S. Fontana: It's a matter of taste: intraspecific size-mediated niche partitioning improves mixed leaf litter consumption	11-6 S. Nolte: Encroachment of <i>Elymus athericus</i> in salt marshes - a tale of two ecotypes	22-1 W. Weisser: A conceptual framework and practical guide for choosing target species for biodiversity sensitive urban design	20-1/2 C. Krug (cont.)	13-4 T. Hlásny: What is the impact of salvage logging after disturbance on the landscape-scale forest carbon balance?					
17:00		3-15 A. Ryabov: Environmental and trait variability constrain community structure and the biodiversity-productivity relationship	11-7 L. Gaggini: Effects of the invasive <i>Impatiens glandulifera</i> on above- and belowground plant diversity in forests	22-2 F. Baden-Böhm: Effect of land-sparing and land-sharing measures on honeybee nest populations: an individual-based modelling approach	20-3 S. Müller: Diurnal and seasonal changes of acoustic diversity and its direct and indirect drivers along a land-use gradient in grasslands	13-5 J. Schurman: Spruce forest after severe bark-beetle outbreak: patterns and processes driving regeneration					

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		Session 3 (cont.)	Session 11 (cont.)	Session 22 (cont.)	Session 20 (cont.)	Session 13 (cont.)					
17:15		3-16 L. Zakharova: Using a trait-based model to study plant strategies under severe desert conditions	11-8 M. Parepa: Fluctuating resources and plant invasion: a field test	22-3 B. Maas: Understanding farmers - perceptions of ecosystem services to improve biodiversity conservation and research communication	20-4 C. Senf: Using long-term satellite records for monitoring forest health under climate change	13-6 T. Thrippleton: Herbaceous competition and browsing may induce arrested succession in central European forests					
17:30			11-9 D. Lazic: Tree-of-heaven: Genetic imprints of geographic origin in Europe and gender distribution in Vienna	22-4 Y. Fabian: How to close the science-practice gap in nature conservation?	20-5 R. Candaele: Bark stripping rate as an indicator to monitor red deer populations	13-7 D. Keßler: Effects of ungulate herbivory and secondary succession on soil respiration after forest windthrow					
		Session 9	Session 11 (cont.)	Session 22 (cont.)	Session 20 (cont.)	Session 13 (cont.)					
		Ecological impacts of pesticides on non-target organisms									
17:45		9-1 C. Brühl: Pesticides and their distribution outside agricultural areas	11-10 M. Cobben: The dynamics of invasiveness: modelling the evolution of plant-herbivore interactions	22-5 C. Fiderer: Ecological interrelation between carnivores and ground-nesting bird communities in a Special Protection Area in Brandenburg, Germany	20-6 L. Urban: Meta-genomic monitoring of water resources with PuntSeq	13-8 H. Sandén: Moth outbreaks reduce decomposition of soil organic matter in subarctic birch forests					

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		Session 9 (cont.)	Session 11 (cont.)	Session 22 (cont.)	Session 20 (cont.)	Session 13 (cont.)					
18:00	9-2 D. Süßenbach: Protecting insects from pesticide effects - current status and perspectives	11-11 T. Heger: Biological invasions: hypotheses, evidence, and methodological challenges	22-6 B. Baur: Intensity-dependent impact of sport climbing on vascular plants and land snails on limestone cliffs	20-7 A. Altzinger: Land-use changes in alpine regions: effects on the aesthetic value	13-9 I. Bekar: Cross-regional modelling of fire ignitions in Europe						
18:15	9-3 M. Liess: Prediction of multiple stress effects	11-12 B. Lenzner: Towards global scenarios of biological invasions in the 21 st century	22-7 N. Ćurčić: GIS and remote sensing analysis of land cover change in Kopaonik National Park (Serbia)	20-8 H. Jäger: Biomass production from alpine grassland - an ecosystem service mapping integrating the A1B emission scenario in the European alpine space	13-10 M. Tudoroiu: The effects of forest-atmosphere interaction on regional climate in temperate Europe						
18:30	<i>Audimax</i> - Special talk on insect decline by Martin Sorg										
20:00	<i>Audimax</i> - Public evening lecture by Klement Tockner										

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08:30	<i>Audimax</i> - Keynote by Stephan Hättenschwiler										
09:30	Coffee break										
	<i>Audimax</i>		<i>Lecture hall 1 (H01)</i>		<i>Lecture hall 2 (H02)</i>		<i>Lecture hall 3 (H03)</i>		<i>Lecture hall 4 (H04)</i>		
	Session 8		Session 9		Session 10		Session 29		Session 34		
	Ecological and evolutionary background for nature conservation and restoration		Ecological impacts of pesticides on non-target organisms		Ecological perspectives on urban environments		Scales and heterogeneity in ecology		Water in plants - mechanisms, fluxes and experiments from the leaf to the ecosystem		
10:00	8-1 R. Kiss: Establishment gaps - a novel tool in grassland restoration		9-4 F. Streissl: Biodiversity protection and pesticide regulation		10-1 L. Inostroza: Technomass, a novel indicator to understand, measure and analyse urbanisation		29-1 S. Getzin: Fairy circles may form without termites: Australian evidence from drone-based image analysis and soil excavations		34-1 A. Kahmen: The isotope composition of water in the stems of trees does not necessarily equal the isotope composition of the trees source water		
10:15	8-2 G. Da Ponte: Spatial regeneration patterns of the tree species <i>Aspidosperma tomentosum</i> (Mart.) (Apocynaceae) in a neotropical savanna in Paraguay		9-5 T. Tschardtke: How glyphosate fights non-target biodiversity		10-2 A. Wenzel: Biodiversity of birds along a gradient of urbanization in Bangalore, India		29-2 G. Leitinger: We measure to know: from plot to landscape scale		34-2 B. Hafner: Hydraulic Redistribution - a crucial water exchange process among Central European tree species		
10:30	8-3 K. Schwarz: The relative importance of landscape structure on abundances of the grassland weed <i>Jacobaea vulgaris</i> and its herbivore <i>Tyria jacobaeae</i>		9-6 J.R. De Long: Taking plant-soil feedbacks to the field: a novel experimental approach		10-3 M. Suarez-Rubio: Bats along an urbanization gradient: the relative importance of artificial light and vegetation structure		29-3 S. Bae: Scale dependency of the heterogeneity-diversity relationship in forests		34-3 M.M. Lehmann: How does the $\delta^{18}\text{O}$ of atmospheric water vapour influence the $\delta^{18}\text{O}$ of water and assimilates in plants?		

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	Session 8 (cont.)	Session 9 (cont.)	Session 10 (cont.)	Session 29 (cont.)	Session 34 (cont.)
10:45	8-4 J. Ditton: Can the poisonous grassland plant <i>Senecio aquaticus</i> be reduced by management intensity?	9-7 C. Eichberg: Anthelmintics negatively affect seed germination of three temperate grassland species	10-4 N. Sajna: Biodiversity matters even in a small urban forest - herb understorey stability after a disturbance	29-4 L. Hülsmann: Detection, strength and implications of conspecific negative density dependence	34-4 N. Ladd: Water and lipid isotopes in mangroves suggest increased reliance on intermittent water sources at high salinity sites
11:00	8-5 C. Straubinger: The effects of historical land use on the vegetation and habitat properties of wet meadows in South Germany	9-8 C. Leeb: Potential pesticide exposure during the post-breeding migration of the common toad (<i>Bufo bufo</i>) in a vineyard dominated landscape	10-5 S. Tresch: Garden management impacts soil quality, belowground biodiversity and ecosystem functioning in urban ecosystems	29-5 A. Clark: Spatial and temporal scales confound tests of stable coexistence, but identify underlying mechanisms	34-5 K. Geißler: Water sources of bigger bushes: a risk for groundwater recharge and ongoing bush encroachment in an African semiarid savanna?
11:15	CANCELLED 8-6 A.C. Braun: Identifying post-disaster biodiversity hotspots after Chile's 2017 wildfires	9-9 B. Leroy: Using unmanned aerial vehicles (UAV) to assess the effects of insecticides on Lepidoptera in oak forests at the individual tree level	10-6 S. Meyer: The impact of urbanisation and forest size on plant-galling infestation rates and leaf damage on young trees of three species	29-6 H. Lischke: Stability of the n-species Lotka-Volterra model: new methods, results and implications for species diversity	34-6 M.-L. Schärer: Effect of organic farming on soil hydraulic properties and plant water relations.
	Session 8 (cont.)	Session 9 (cont.)	Session 10 (cont.)	Session 26 Plant populations facing environmental change	Session 34 (cont.)

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		Session 8 (cont.)		Session 9 (cont.)		Session 10 (cont.)		Session 26		Session 34 (cont.)	
11:30		8-7 S. Rubanschi: The impact of historical land use on the species assembly of dry sandy grasslands		CANCELLED 9-10 U.G. Kormann: Forest biodiversity trades off against timber production but not revenue in the Oregon Coast Range		10-7 A. Arnberger: Do urban environments with different degrees of naturalness differently effect human health and wellbeing?		26-1 S.M. Kahl: An ecological and genomic study of phenotypic responses to climate change in the widely distributed species <i>Silene vulgaris</i>		34-7 M.M. Herberich: Hydrological niche segregation of plant functional traits in an individual-based model	
		Session 8 (cont.)		Session 9 (cont.)		Session 28 Pollinator ecology		Session 26 (cont)		Session 34 (cont.)	
11:45		8-8 P.Y. Krenn: Space use patterns and use of habitat connectivity in eastern green lizards (<i>Lacerta viridis</i>) researched in the vineyards of Nußberg, Vienna		9-11 S. Allgeier: You are what you eat: does mosquito control affect predators by altering wetland food chains?		28-1 S. Miede: Landscape change impacts on the diversity of pollinators in Uruguay		26-2 Y. Deng: Inter- and intraspecific variation in response to nutrient fluctuations in annual plants		34-8 M. Held: Xylem plasticity: tracheid and pit architecture of <i>Pinus sylvestris</i> growing on a dry and a humid site	
		Session 8 (cont.)		Session 27 Plant, animal and habitat diversity in farmland: monitoring and strategies for conservation		Session 28 (cont.)		Session 26 (cont)		Session 21 Learning from protected areas for an ecosystem-oriented management of forests	
12:00	Festsaal - Poster session										
13:00	Lunch										
14:00	Audimax - Keynote by Pedro Beja										

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Wednesday, 12 September 2018 (cont.)					
Time	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>	<i>Lecture hall 4 (H04)</i>
	Session 8 (cont.)	Session 27	Session 28 (cont.)	Session 26 (cont.)	Session 21
15:00	8-9 H.-P. Rusterholz: Successful restoration of abandoned terraced vineyards and grassland in the canton Ticino, Switzerland	27-1 F. Herzog: First results for science, policy and farmers from the Swiss farmland biodiversity monitoring programme ALL-EMA	28-2 I. Grass: Past and potential future effects of habitat fragmentation on plant-pollinator and host-parasitoid networks	26-3 C. Lampei: Leaf traits track adaptation of vascular plants to climate along a 1,200 km latitudinal gradient in Western Siberia	21-1 G. Wachinger: Conflict resolution in national park planning and management: what can we learn from the case of the National Park Schwarzwald?
15:15	8-10 K. Strobl: Does time heal all wounds? - Evaluating trajectories of multiple peatland properties using a multifunctionality approach	27-2 J. Dauber: Progress towards a national farmland biodiversity monitoring in Germany	28-3 U. Neumüller: Impact of inundation regime and meadow management on wild bee communities and bee-flower networks	26-4 S. Block: Migration lags during climate change driven range shifts can accelerate population spread	21-2 W. Oberhuber: Impact of drought stress on forest dynamics in two environmentally sensitive protected areas
15:30	8-11 S. Fink: Fungi in floodplains: modelled habitat suitability and refugia	27-3 K. Ronnenberg: Regionally differentiated responses of farmland birds to levels of agricultural intensity	28-4 C. Westphal: Fruit quantity and quality of strawberries benefit from enhanced pollinator abundance at hedgerows in agricultural landscapes	26-5 M. Bader: Carbon balances and climate-change responses of bryophytes in the tropics	21-3 S. Thorn: Differential response of rare and dominant species separate successional trajectories in anthropogenically disturbed forest
	Session 8 (cont.)	Session 27 (cont.)	Session 28 (cont.)	Session 33	Session 21 (cont.)
				Understanding and projecting plant phenology shifts	

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Time						Wednesday, 12 September 2018 (cont.)					
	<i>Audimax</i>		<i>Lecture hall 1 (H01)</i>		<i>Lecture hall 2 (H02)</i>		<i>Lecture hall 3 (H03)</i>		<i>Lecture hall 4 (H04)</i>		
	Session 8 (cont.)		Session 27 (cont.)		Session 28 (cont.)		Session 33		Session 21 (cont.)		
15:45	<p>8-12 S. Kurze: More losers than winners: response of common Lepidoptera species to nitrogen enrichment in their host-plants</p>		Discussion		<p>28-5 S. Baensch: Enhancing strawberry pollination with social bees by choosing the right species and colony size</p>		<p>33-1 H. Scheifinger: A European phenological database, PEP725, www.pep725.eu</p>		<p>21-4 E. Haeler: Biodiversity patterns in a natural forest reserve: effects of deadwood amount and distribution on saproxylic species</p>		
16:00	Coffee break										
	Session 8 (cont.)		Session 27 (cont.)		Session 16		Session 33 (cont.)		Session 21 (cont.)		
					Functional ecology of mycorrhizas						
16:30	<p>8-13 V. Rösch: Newly created wood pastures as a tool for bird and grasshopper conservation</p>		<p>27-4 C. Dominik: Landscape composition, configuration, and trophic interactions shape arthropod communities</p>		<p>16-1 L. Götzenberger: Mycorrhizal symbiosis vs. clonality - testing a trade-off across species, phylogeny, and habitats</p>		<p>33-2 F. Baumgarten: Sensing the optimal time for leaf-out: a probabilistic plea for photoperiod and for temperature</p>		<p>21-5 M. Kortmann: Restoring forests by bark beetle outbreaks - implications from mountain forest flagship species</p>		
16:45	<p>8-14 F. Schrell: Survival rates of the yellow-bellied toad (<i>B. variegata</i>) on the basis of a current census and existing long-term data</p>		<p>27-5 K. Pascher: Drivers for farmland biodiversity change in Austria: analyses of two data-sets of BINATS I and II</p>		<p>16-2 K. Pritsch: Reactivity of ectomycorrhizal communities of spruce and beech to recurrent years of severe summer drought</p>		<p>33-3 Y. Vitasse: Spring frost under global warming: is the risk of damaging frosts increasing in Switzerland and Germany?</p>		<p>21-6 J. Metz: Habitat size is the crucial factor for protecting the wetland orchid <i>Dactylorhiza majalis</i></p>		

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Time						Wednesday, 12 September 2018 (cont.)					
	<i>Audimax</i>		<i>Lecture hall 1 (H01)</i>		<i>Lecture hall 2 (H02)</i>		<i>Lecture hall 3 (H03)</i>		<i>Lecture hall 4 (H04)</i>		
	Session 8 (cont.)		Session 27 (cont.)		Session 16 (cont.)		Session 33 (cont.)		Session 21 (cont.)		
17:00	8-15 D. Rupprecht: Is there local adaptation in plant species to soil reaction?		27-6 S. Schindler: Austrian farmland biodiversity monitoring 'ÖBM Kulturlandschaft': combining remote sensing and field surveys		16-3 J. Lazarevic: Ectomycorrhizal fungi in pine forest at the upper tree line in Montenegro		33-4 S.F. Bucher: Patterns in flowering phenology change along elevational gradients and relate to leaf functional traits		21-7 T. Dirnböck: Does carbon sequestration matter for managers of protected areas?		
17:15	8-16 A. Bucharova: Are local plants the best for ecosystem restoration? It depends on how you analyze the data		Discussion		16-4 D. Godbold: Mycorrhizas and soil ecosystem function of co-existing woody vegetation islands at the alpine tree line		33-5 A. Malyshev: Timing is not everything: key bud dormancy variables affecting budburst dates		21-8 A. Sommerfeld: How does human influence modulate natural disturbance patterns across the temperate forest biome?		
17:30			GfÖ General Meeting								
20:00	GfÖ Heurigen-Abend										

‘Ecology – meeting the scientific challenges of a complex world’ – conference programme

Time				
Thursday, 13 September 2018				
08:30	<i>Audimax</i> - Keynote by Nina Buchmann			
09:30	Coffee break			
	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>
	Session 4	Session 23	Session 30	Session 2
	Biodiversity and ecosystem services in agroecosystems	Novel tools and data for quantifying the impacts of global change on ecosystems	Social ecology: the need for an integrative perspective	Alpine ecosystems in the phase of global change
10:00	<p style="text-align: center;">4-1 C. Plutzer: LUBIO: Integrating decisions on land use and climate change to assess biodiversity changes in cultural landscapes</p>	<p style="text-align: center;">23-1 H. Bugmann: Structural uncertainty in forest gap models: friend or foe?</p>	<p style="text-align: center;">30-1 M. Mehring: Social-ecological dynamics of ecosystem services</p>	<p style="text-align: center;">2-1/2 C. Körner: Alpine ecosystems under global change</p>
10:15	<p style="text-align: center;">4-2 D. Paredes: Effect of natural habitats in the landscape on natural enemies of olive pests: the importance of the distance</p>	<p style="text-align: center;">23-2 K. Merganicová: Simulating intra-annual carbon dynamics of beech using different phenological data and modelling approaches</p>	<p style="text-align: center;">30-2 H. Haberl: The stock-flow-service nexus: new directions for socio-ecological transformation research</p>	
10:30	<p style="text-align: center;">4-3 L. Ammann: What molecular gut content analysis can tell us about resource use by aphid predators prior to crop colonization</p>	<p style="text-align: center;">23-3 U. Märkel: Tree species site suitability as a combination of occurrence probability and growth</p>	<p style="text-align: center;">30-3 L. Drees: Coupling models to understand social-ecological systems</p>	<p style="text-align: center;">2-3 B. Berauer: Differing patterns of productivity and biodiversity of montane and alpine grasslands under climate change</p>
10:45	<p style="text-align: center;">4-4 M.H. Entling: Management innovations improve natural pest suppression in vineyards</p>	<p style="text-align: center;">23-4 B. Pietzsch: IPS-SPREADS - a new simulation tool for the risk assessment of the European spruce bark beetle (<i>Ips typographus</i> L.)</p>	<p style="text-align: center;">30-4 V. Gaube: Farmer's decision-making and land use intensification: developing an integrated socio-ecological agent-based model of the Enns valley</p>	<p style="text-align: center;">2-4 G. Wieser: Nitrogen addition and understory removal but not soil warming increased radial growth of <i>Pinus cembra</i> at treeline in the Central Austrian Alps</p>

‘Ecology – meeting the scientific challenges of a complex world’ – conference programme

Thursday, 13 September 2018 (cont.)				
Time	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>
	Session 4 (cont.)	Session 23 (cont.)	Session 30 (cont.)	Session 2 (cont.)
11:00	4-5 D. Uzman: Solitary bees and wasps in vineyards respond differently to management system and landscape structure	23-5 N. Rüger: Using demographic trade-offs and a simple forest model to understand and predict tropical forest dynamics	CANCELLED 30-5 A. Richter: Towards a qualitative assessment of cultural and natural values of national natural heritage sites in Germany	2-5 L. Rose: How suitable are altitudinal transects for predicting plant responses to global warming?
11:15	4-6 S. Kratschmer: Extensive soil management and high floral resource availability promote wild bees in vineyards across Europe	23-6 R. Peters: Soil water hydrodynamics in individual-based mangrove stand modelling - a new strategy to face changing environments	30-6 L. Karrasch: Land use elements and attributed ecosystem services: an archetype approach to land use evaluation at the North Sea coast	2-6 A. Szukala: Convergent and adaptive processes during adaptation to warmer and drier habitats in the alpine plant species <i>Heliosperma pusillum</i>
11:30	4-7 M. Eraerts: Honeybees vs wild pollinators: foraging characteristics and response to diversity in sweet cherry orchards	23-10 K. Darras: Sampling biodiversity with autonomous sound recordings	30-7 X. Yang: Community-based ecotourism at Jiuzhaigou National Reserve and perceptions of management programs in administrative and local communities	2-7 L. Nicklas: Trends in alpine biodiversity and microhabitat variability in the Central and South Alps
11:45	4-8 U.S. Hoffmann: Connectivity of wildflower strips promote stable wasp communities	23-8 K. van Benthem: Using random forests to identify composite early warning signals of population crashes	30-8 A. Bajrami: Ethnoecology and the cultural niche	2-8 R. Walcher: How abandonment of mountainous meadows influence bumblebees, true bugs and grasshoppers: studies from the Austrian and Swiss Alps
12:00	<i>Festsaal</i> - Poster session			
13:00	Lunch			
14:00	<i>Audimax</i> - GfÖ Award session			

'Ecology – meeting the scientific challenges of a complex world' – conference programme

Time					Thursday, 13 September 2018 (cont.)			
	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>				
	Session 4 (cont.)	Session 23 (cont.)	Session 30 (cont.)	Session 34				
				Water in plants - mechanisms, fluxes and experiments from the leaf to the ecosystem				
15:00	4-9 R.M. Hall: Vegetation management intensity alters functional traits and plant community compositions in vineyards across Europe	23-9 P. Fährding-Potschkat: Determining species' ranges using point locality data from data sharing networks - mining for false-positives	30-9 J. Methorst: Bird species richness increases life satisfaction across Europe	34-9 C. Windt: Monitoring dynamics changes in water- and dry matter content of leaves, fruits and stems by means of a mobile NMR sensor (NMRS)				
15:15	4-10 M. Griesser: Effects of environment and vineyard soil management on soil microbial diversity and composition	23-7 W. Rammer: Scaling vegetation dynamics: a novel approach for modeling vegetation transitions across large spatial scales based on deep learning	30-10 L. Battisti: Residential greenery as a tool for improving human well-being	34-10 E. Tello-García: Plant water use strategies under drought conditions: new insights from lysimeter studies in Alpine grasslands				
15:30	4-12 S. Zytynska: Crop growth and pest suppression effects of beneficial microbes alters under climate change	23-11 C. von Hoermann: Movement ecology meets roads		34-11 R. Schweiger: Effects of continuous and pulsed deficit irrigation on the metabolome of wheat flag leaves				
15:45		23-12 L.H. Teixeira: A model ecosystem analyzer (TUMmesa) for a new generation of community experiments		34-12 S. Baldauf: Combining field experiments and simulation modelling to assess the effect of rainfall frequency on a common dryland biocrust lichen				
16:00	Coffee break							

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Thursday, 13 September 2018 (cont.)				
Time	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>
	Session 4 (cont.)	Session 12	Session 15	Session 25
		Ecosystem perspectives in wildlife ecology	Freshwater ecology and societal interactions	Physiological plant ecology in a complex changing world
16:30	4-13 J. Rosa: Can diversified farming practices reduce farmers' yield risk?	12-1 S.C. Schai-Braun: Estimating sustainable harvest rates for a high density European hare (<i>Lepus europaeus</i>) population	15-1 T. Hein: Human river systems in the 21 st century (HR21) - a new interdisciplinary doctoral school addressing riverine landscapes as dynamic socio-ecological systems	25-1 M. Arend: Above- and belowground processes shaping tree resilience to drought
16:45	4-14 S.T. Meyer: Biodiversity - multifunctionality relationships in grasslands depend on identity and number of measured functions	12-2 B. Mattsson: Ecosystem service flows from a migratory species: spatial subsidies of the northern pintail	15-2 Á. Vári: Assessing water ecosystem services within the Hungarian national ecosystem services assessment	25-2 J.M.-I. Schweiger: Partial mycoheterotrophy in orchids
17:00	4-15 A. Jungandreas: Future land management strategies and their impact on breeding habitats of endangered bird species in Saxony, Germany	12-3 J. Calabrese: Statistical inference for home range overlap	15-3 C. Seele-Dilbat: Past, present and future. Changes of floodplain vegetation due to anthropogenic changes and a prognosis-tool to predict effects of revitalization	25-3 J.S. Petermann: Aquatic micro-ecosystems and their use in investigating a complex world
17:15	4-16 M.-T. Bleicher: Movement behaviour of northern lapwing chicks <i>Vanellus vanellus</i> in agricultural landscapes	12-4 A. Schweiger: Megafauna extinction induced size reduction in European dung beetle assemblages over the last 53,000 years	15-4 D.S. Hayes: A review of hydropeaking mitigation thresholds from scientific literature and national legislation	25-4 G. Hoch: Carbon starvation of epiphytic orchids from tropical cloud forests at warm temperatures

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Thursday, 13 September 2018 (cont.)				
Time	<i>Audimax</i>	<i>Lecture hall 1 (H01)</i>	<i>Lecture hall 2 (H02)</i>	<i>Lecture hall 3 (H03)</i>
		Session 12 (cont.)	Session 15 (cont.)	Session 25 (cont.)
17:30		12-5 J. Stiegler: Succession and use of carrion by scavenger communities in the Bavarian Forest National Park	15-5 P.D. Tibihika: Human-fish conflicts in East Africa: molecular genetic diversity of anthropogenic threatened <i>Oreochromis niloticus</i>	25-5 E. Ostertag: Taller individuals of <i>Senegalia mellifera</i> , an encroacher shrub in African savannas, show better physiological adaptations towards drought stress
18:00		Closing address		