# Program Overview

| | Wednesday, 29 Feb | Thursday, 1 Mar | Friday, 2 Mar |
|---|---|---|---|
| 09:00-09:15 | | K3. Miguel B. Araújo: Individualism, scale dependence and predictions of climate change impacts on species distributions | K6. Catherine Graham: Past process and current patterns in ecological communities |
| 09:15-09:30 | | | |
| 09:30-09:45 | | | |
| 09:45-10:00 | | | |
| 10:00-10:15 | | Coffee break + posters | Coffee break + posters |
| 10:15-10:30 | | | |
| 10:30-10:45 | | O7: Schweiger & Singer | O19: Bland et al. |
| 10:45-11:00 | | O8: Sarmento Cabral et al. | O20: Laube et al. |
| 11:00-11:15 | | O9: Hartig et al. | O21: Huang et al. |
| 11:15-11:30 | | O10: Weigelt et al. | O22: Knapp & Kühn |
| 11:30-11:45 | | O11: Whitmee et al. | O23: Nogués-Bravo |
| 11:45-12:00 | | O12: Wang et al. | O24: Frank et al. |
| 12:00-12:15 | Registration | Lunch | Conclusion |
| 12:15-12:30 | | | |
| 12:30-12:45 | | | |
| 12:45-13:00 | | | |
| 13:00-13:15 | Welcome | Posters | |
| 13:15-13:30 | | | |
| 13:30-13:45 | K1. Carsten Rahbek: The geography of global species diversity – and the challenge of 'one earth' | K4. Thomas Hickler: Process-based modelling of the global terrestrial biosphere. | |
| 13:45-14:00 | | | |
| 14:00-14:15 | | | |
| 14:15-14:30 | | | |
| 14:30-14:45 | O1: Somveille et al. | O13: Kuemmerle et al. | |
| 14:45-15:00 | O2: Beck et al. | O14: Higgins et al. | |
| 15:00-15:15 | O3: Dengler et al. | O15: O'Hara et al. | |
| 15:15-15:30 | O4: Zeuss | O16: Beketov & Liess | |
| 15:30-15:45 | Coffee break + posters | Coffee break + posters | |
| 15:45-16:00 | | | |
| 16:00-16:15 | K2. David Orme: Macroecological perspectives on the dynamics of species ranges | Posters | |
| 16:15-16:30 | | | |
| 16:30-16:45 | | K5. Albert Phillimore: Phenological variation in space and time: teasing apart plasticity and microevolution | |
| 16:45-17:00 | | | |
| 17:00-17:15 | O5: Lavergne et al. | | |
| 17:15-17:30 | O6: Wiemers et al. | | |
| 17:30-17:45 | Senckenberg Tour | O17: Pauls et al. | |
| 17:45-18:00 | | O18: Wüest et al. | |
| 18:00-18:15 | | Panel discussion "Meet the editors" | |
| 18:15-18:30 | | | |
| 18:30-18:45 | Reception | | |
| 18:45-19:00 | | | |
| 19:00-19:15 | | Break | |
| 19:15-19:30 | | Break | |
| 19:30-19:45 | | Dinner | |
| 19:45-20:00 | | | |

# Keynote presentations

Carsten Rahbek
Center for Macroecology, Evolution and Climate, University of Copenhagen, Denmark

***K1: The geography of global species diversity – and the challenge of 'one earth'***

David Orme
Imperial College London, UK

***K2: Macroecological perspectives on the dynamics of species ranges***

Miguel B. Araújo
Museo Nacional de Ciencias Naturales, Madrid, Spain; University of Évora, Portugal;
Center for Macroecology, Evolution and Climate, University of Copenhagen, Denmark

***K3: Individualism, scale dependence and predictions of climate change impacts on species distributions***

Thomas Hickler
Biodiversity and Climate Research Centre (BiK-F) & Senckenberg Gesellschaft für Naturforschung; J.W. Goethe University Frankfurt am Main, Germany

***K4: Process-based modelling of the global terrestrial biosphere***

Albert B. Phillimore
Imperial College London, UK

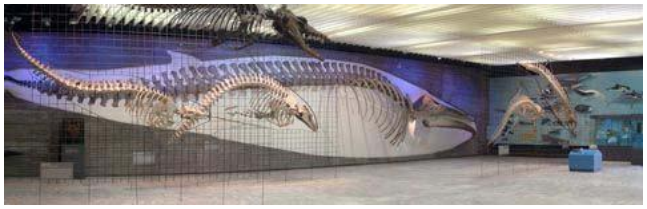
***K5: Phenological variation in space and time: teasing apart plasticity and microevolution***

Catherine Graham
Stony Brook University, New York, USA

***K6: Past process and current patterns in ecological communities***

# Special events

### Tour of Senckenberg Nature Museum (Wednesday, 17:30)



The Senckenberg Museum is one of the largest Natural History Museums in Germany and exhibits the diversity of life and evolution of organisms as well as the change of planet earth over millions of years. An area of about 6.000 m² invites you to marvel at some thousands of exhibits, some of them unique in the world, displayed in fascinating exhibitions. There will be a guided tour (c. 1 hour, in English or German) on Monday, starting at 18:00.

### Welcome reception (Wednesday, 18:30)

Join us for drinks and snacks on the Senckenberg Gallery in front of the Lecture Hall.

### Open panel discussion: Meet the Editor's – The Present and Future of Scientific Publishing (Thursday, 18:00)

In this open discussion session, we will assemble editors of several important ecological journals to discuss the current state and the future of scientific publishing. After an introductory statement of the panel members, we will open the floor for an interactive debate – within the editors' panel and also including the conference participants.

*Confirmed panel participants:*

- Carsten Rahbek, Editor in Chief of *Ecography*
- Katrin Böhning-Gaese, Subject Editor of *Global Ecology and Biogeography*
- Catherine Graham, Subject Editor of *Ecography*
- David Orme, Subject Editor of *Methods in Ecology and Evolution*
- Miguel B. Araújo, Deputy Editor in Chief of *Ecography* and Subject Editor of *Journal of Biogeography*
- Ingolf Kühn, Subject Editor of *Diversity and Distributions* and *Journal of Vegetation Science* and Editor in Chief of *NeoBiota*

### Conference Dinner (Thursday, 19:30)

Join us to experience some of the classic specialities of Hessian Cuisine in the cosy atmosphere of an original Frankfurt Apfelwein ("Ebbelwoi") Pub (**www.apfelweinklaus.de**).

# Contributed Oral Presentations (O1 – O24)

| Talk No. | Authors | Title |
|---|---|---|
| **O1** | Marius Somveille et al. | The macroecology of bird migration |
| **O2** | Jan Beck et al. | Closing the Wallacean shortfall: the case of Old World hawkmoths |
| **O3** | Jürgen Dengler et al. | Combining large extent with small grain provides new insight into scale-dependent plant diversity patterns in southern Africa |
| **O4** | Dirk Zeuss | Biogeographic patterns of thermal melanism in European dragonflies |
| **O5** | Sébastien Lavergne et al. | Do past rates of niche evolution explain current population trends in European birds? |
| **O6** | Martin Wiemers et al. | Responses of butterfly & dragonfly assemblages to climatic fluctuations in Germany |
| **O7** | Oliver Schweiger & Alexander Singer | Two approaches for integrative species distribution modeling. Hybrid models and cross-scale models |
| **O8** | Juliano Sarmento Cabral et al. | Unifying ecological niche, community ecology, and biogeography: towards fully-fledged mechanistic niche models |
| **O9** | Florian Hartig et al. | Approximate Bayesian inference for stochastic models in ecology and biogeography |
| **O10** | Patrick Weigelt et al. | Island Ecoregions – a physical description of the world's islands for macroecology and biogeography |
| **O11** | Sarah Whitmee et al. | Unravelling the shared effects of space and phylogeny on range filling: what can different methods tell us? |
| **O12** | Zhiheng Wang et al. | Directional and geographical patterns in beta diversity of China's woody plants: niches versus dispersal limitations |
| **O13** | Tobias Kuemmerle et al. | Coupling species distribution and dynamic vegetation models to reconstruct Holocene range dynamics of European bison |
| **O14** | Steven Higgins et al. | A physiological analogy of the niche for projecting the potential distribution of plants |
| **O15** | Bob O'Hara et al. | Using remote sensing data to explore changes in tree cover at the continental scale |
| **O16** | Mikhail Beketov & Matthias Liess | Ecotoxicology and macroecology – Time for integration |
| **O17** | Steffen Pauls et al. | Cryptic biodiversity loss linked to global climate change |
| **O18** | Raphael Wüest et al. | Regional species pools in a biodiversity hotspot – the case of Restionaceae in the Cape Floristic Region |
| **O19** | Lucie Bland et al. | Predicting the conservation status of Data Deficient mammals on the IUCN Red List: a machine learning approach |
| **O20** | Julia Laube et al. | Response of alien plant species to climatic trends |
| **O21** | Shan Huang et al. | Traits, trees and taxa: global dimensions of biodiversity in mammals |
| **O22** | Sonja Knapp & Ingolf Kühn | Origin matters: Successful native and non-native plant species differ functionally |
| **O23** | David Nogués-Bravo | Macroecology and ancient genetics for global change research |
| **O24** | Anke Frank, Diana Fisher et al. | Contemporary marsupial decline and extinction in tropical Australia: is history repeating? |

# Contributed Poster Presentations (P1-19)

| Poster No. | Authors | Title |
|---|---|---|
| **P1** | Zakia Akasbi et al. | Effects of grazing exclusion on interannual changes of dwarf shrub biomass in a Moroccan sagebrush steppe |
| **P2** | Jake Alexander | Climate adaptation across the native and introduced ranges of invasive plants |
| **P3** | Liliana Ballesteros et al. | What factors influence in the accuracy of distribution models? An empirical study on Old World sphingid moths. |
| **P4** | Heike Kappes et al. | Species diversity in tropical microsnails at different spatial scales |
| **P5** | Yael Kisel et al. | How diversification rates and diversity limits combine to create large-scale species -area relationships |
| **P6** | Alexander Kubisch et al. | Kin and multi-generation selection are the driving forces for dispersal evolution during range expansion |
| **P7** | Carsten Meyer et al. | The Wallacean shortfall – quantification and global correlates of biodiversity inventory completeness |
| **P8** | Jens Mutke & Judith Krobbach | Bigger Better Faster More – Why are there so many plant species in the Neotropics? |
| **P9** | Signe Normand et al. | Disentangling determinants of species disequilibrium with climate across geographic space |
| **P10** | Triin Reitalu et al. | Changes in forest composition in Estonia during the last 5000 years: relative importance of climate and human impact |
| **P11** | Thor-Seng Liew, Menno Schilthuzien et al. | The determinants of land snail diversity along a tropical elevational gradient: insularity, geometry, and niches |
| **P12** | André Schmiedel et al. | Investigating plant trait-environment relationships in Swiss dry grasslands |
| **P13** | Anke Stein & Holger Kreft | Effects of habitat heterogeneity on species richness – a meta-analysis |
| **P14** | Stefanie Stenzel et al. | MSAVE: Multi-Seasonal Remote Sensing for Monitoring Vegetation |
| **P15** | Marcela Suarez-Rubio et al. | Housing development in rural areas deteriorates forest birds breeding habitats |
| **P16** | Dieter Thomas Tietze et al. | Gradient in avian species richness in the Himalayas |
| **P17** | Jan Treiber et al. | Present and potential distribution of Central Asian dryland plants |
| **P18** | Wenjing Yang et al. | Linnean and Wallacean shortfalls in the knowledge of Chinese flora |

# Presentation instructions

### Oral presentations

Keynote presentations will be 1 hour including discussion (40-45 min talk + 15-20min discussion).

Contributed oral presentations will be 15 minutes including discussion (10-12min talk + 3-5min discussion).

All oral presentations have to be provided as MS Powerpoint presentations or PDF documents. Please make sure your presentation runs on a PC!

*Presentations have to be uploaded on the conference laptop upon registration!*

### Posters

Posters must not be wider than 1.00 meters. Ideally, posters should be in DIN A0 format: 85 x 119 cm (width x height). Posters should be put up upon arrival and should be present during the entire conference. Poster presenters are encouraged to provide printed handouts.